

APPENDIX C  
OPERATION AND MAINTENANCE, GENERAL  
**TABLE OF CONTENTS**

(Page numbers may vary +or- a page due to differences in printers.)

	Page
SUB-APPENDIX C-1 OPERATION AND MAINTENANCE, GENERAL .....	C-1-1
C-1.1. Appropriation Title .....	C-1-1
C-1.2. Activities Included .....	C-1-1
SUB-APPENDIX C-2 PROJECT OPERATION AND MAINTENANCE.....	C-2-1
C-2.1. Purpose and Scope.....	C-2-1
C-2.2. Program Development Principles.....	C-2-1
a. General Philosophy .....	C-2-1
b. Relationship to Program Execution.....	C-2-1
c. Operations (Work Category Codes 601-606).....	C-2-2
d. Maintenance (Work Category Codes 611-616) .....	C-2-2
e. <del>Adjustments</del> Priorities.....	C-2-2
f. <del>Priorities</del> O&M Cost Savings Initiative .....	C-2-2
g. <del>Level of Service</del> Adjustments.....	C-2-2
C-2.3. Program Development and Review Process .....	C-2-32
a. Work Category Codes (WCC).....	C-2-32
b. Performance-Based Programming .....	C-2-3
c. Use of Work Category Codes to Program for Business Functions .....	C-2-43
d. O&M Power Costs in the Pacific Northwest.....	C-2-54
e. <del>Points of Emphasis</del> Work Packages – Primary and Supporting Costs.....	C-2-5
f. Operation and Maintenance Work Packages .....	C-2-5
g. Appropriate Levels of Work Package Justification.....	C-2-5
h. Well-Written Descriptions and Funding Arguments.....	C-2-6
C-2.4. Funding Levels .....	C-2-76
a. Baseline.....	C-2-76
b. Non-Deferrable In Program Year .....	C-2-87
c. Deferrable in Program Year .....	C-2-8
d. Maintenance and Repair Beyond the Ability of the District (MRBA).....	C-2-98
e. Funding Levels.....	C-2-8
C-2.5. Special Interest Items .....	C-2-8
a. Performance Goal Attainment.....	C-2-409
b. Endangered Species Act Activities .....	C-2-449
c. Continuing Contracts from PY-1.....	C-2-449
d. Major Maintenance.....	C-2-4410
e. Dredged Material Management Plan (DMMP) Studies.....	C-2-4210
f. New Recreation Facilities.....	C-2-4210
g. Power Portion of Joint Costs in Pacific Northwest.....	C-2-10
C-2.6. <del>Unaccomplished</del> Operation Maintenance and Repair (UMAR)Backlog Reporting Requirements. C-2-121	C-2-121
a. <del>Unfunded Infrastructure Maintenance and Repair</del> Backlog.....	C-2-121
b. Critical Backlog .....	C-2-11
C-2.7. Cost Estimates.....	C-2-131
a. Projections – <del>Non-Dredging Projects</del> .....	C-2-131
b. Projections – <del>Baseline Maintenance Dredging Projects</del> .....	C-2-13

APPENDIX C  
OPERATION AND MAINTENANCE, GENERAL  
**TABLE OF CONTENTS**

*(Page numbers may vary +or- a page due to differences in printers.)*

	Page
<del>c. Projections - Non-annual Maintenance Dredging Projects</del> .....	<del>C-2-14</del>
<del>db. Rounding</del> .....	<del>C-2-151</del>
C-2.8. Rank Assignments .....	C-2-151
a. Work Groupings .....	C-2-151
b. Rankings .....	C-2-152
c. Preliminary Rankings .....	C-2-152
d. Final Rankings .....	C-2-152
C-2.9. Condition Indices (CI)(CIs) .....	C-2-163
<del>C-2.10. Navigation Quadrant</del> .....	<del>C-2-16</del>
C-2.140. Five-year Program .....	C-2-173
a. Five-year Funding Estimation .....	C-2-173
b. Five-year UMAP Backlog Program Preparation .....	C-2-184
C-2.121. Navigation Projects .....	C-2-195
C-2.132. Marginal Projects .....	C-2-195
C-2.143. Evaluation Reports .....	C-2-195
a. Major Rehabilitation Program .....	C-2-2015
b. Dam Safety Assurance Program .....	C-2-2016
C-2.154. Cultural Resources .....	C-2-2016
C-2.165. Special Recreation Use Fees (SRUF) .....	C-2-2016
C-2.176. Challenge Partnerships (eChallenge Cost Share) .....	C-2-2016
C-2.17. On-Board Review .....	C-2-2016
C-2.18. Congressional Submission .....	C-2-2016
a. Database System .....	C-2-24
b. Correction of Program Submittals .....	C-2-24
c. Points of Contact .....	C-2-24
C-2.19. Submission Requirements Additional Information .....	C-2-17
a. Database System .....	C-2-17
b. Correction of Program Submittals .....	C-2-17
c. Points of Contact .....	C-2-18
C-2.20 Submission Requirements .....	C-2-18
 SUBAPPENDIX C-3 NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP) .....	 C-3-1
C-3.1. General Guidance .....	C-3-1
C-3.2. General Program Description .....	C-3-1
a. National Emergency Preparedness Program (Code 903-500) .....	C-3-1
b. Local Preparedness Continuity of Operations (Code 903-510) .....	C-3-1
c. National Preparedness Planning (Code 903-520) .....	C-3-1
d. Facilities Emergency Operations Center Support (Code 903-530) .....	C-3-2
e. Emergency Water Program (Code 903-540) .....	C-3-2
f. Continuity of Government (Code 903-550) .....	C-3-2
g. Catastrophic Disaster Training and Exercises (Code 903-560) .....	C-3-2
C-3.3. Cost Estimates .....	C-3-32
C-3.4. Recommended Funding Level .....	C-3-3
C-3.5. Submission Requirements .....	C-3-3

APPENDIX C  
OPERATION AND MAINTENANCE, GENERAL  
**TABLE OF CONTENTS**

*(Page numbers may vary +or- a page due to differences in printers.)*

	Page
SUBAPPENDIX C-4 RECREATION FACILITIES AT COMPLETED PROJECTS .....	C-4-1
C-4.1. General.....	C-4-1
C-4.2. Funding Level.....	C-4-1
C-4.3. Supporting Data .....	C-4-2

**LIST OF TABLES**

Table .....	Page
C-2.1 Work Category Codes - Numerically Ordered.....	C-2-19
C-2.2 Work Category Codes - Alphabetically Ordered.....	C-2-27
C-2.3 O&M Work Category Code Matrixes and Definitions .....	C-2-4236
C-2.3a Operation Work Category Code Matrix (by Business Function) .....	C-2-37
C-2.3b Maintenance Work Category Code Matrix (by Business Function) .....	C-2-38
C-2.3c Work Category Codes and Definitions -- O&M Operations Accounts.....	C-2-39
C-2.3d Work Category Codes and Definitions -- O&M Maintenance Accounts.....	C-2-40784
C-2.4 .....	Submission Requirements
	C-2-452116
C-2.4 Operation And Maintenance, General (O&M, Gen.) and Flood Control, Mississippi River And Tributaries (Maintenance)(MR&T) Targets .....	C-2-453117
C-2.5 Tier II Performance Measures for O&M Program Submittal .....	C-2-454118

**LIST OF ILLUSTRATIONS**

Illustration	Page
C-2.1 Major Subordinate Command (MSC) Supplemental Justification Sheet Major Maintenance .....	C-2-466129
C-2.2 MSC Supplemental Justification Sheet Dredged Material Management Plan Studies.....	C-2-467130
C-2.3 District/MSC -- Worksheet for Four-year Program .....	C-2-470132
C-2.4 District/MSC -- Four-year Program PY+__ .....	C-2-474133
C-2.5 MSC Justification of Estimate (Projects) .....	C-2-472134
C-2.5b MSC Justification of Estimate (Scheduling Reservoir Operations and Inspection of Completed Works).....	C-2-473135
C-2.5c MSC Justification of Estimate (Project Condition Surveys and Surveillance of Northern Boundary Waters).....	C-2-474136
C-3.1 National Emergency Preparedness Program (NEPP).....	C-3-4
C-3.2 NEPP Recommended Program Supporting Data .....	C-3-5
C-3.3 NEPP Four Year Program .....	C-3-7
C-3.4 NEPP Recommended Program Supporting Data .....	C-3-8
C-4.1 New Recreation Facilities at Completed Projects -- Supplemental Information Sheet.....	C-4-3



SUBAPPENDIX C-1  
OPERATION AND MAINTENANCE, GENERAL

C-1.1. **Appropriation Title.** This appendix provides guidance for preparation of the program and program request for all Operation and Maintenance activities under the appropriation titles: Operation and Maintenance, General (O&M) and Flood Control, Mississippi River and Tributaries, Maintenance (MR&T) for the Program Fiscal Year.

C-1.2. **Activities Included.**

<u>Activities</u>	<u>Category/Class/ Subclass Code</u>		<u>Guidance Provided in Subappendix Number</u>
	<u>O&amp;M</u> <b>(903)</b>	<u>MR&amp;T</u> <b>(908)</b>	
Navigation	100	410	C-2
Channels & Harbors	110		C-2
Locks and Dams	120		C-2
Flood Control	200	420	C-2
____ Reservoirs	210		C-2
Channel Improvements, Inspections And Miscellaneous Maintenance	220		C-2
Multiple Purpose Power	300		C-2
Protection of Navigation	400		C-2
National Emergency Preparedness Program	500		C-3
Recreation Facilities at Completed Projects	710		C-4



SUBAPPENDIX C-2  
OPERATION & MAINTENANCE, GENERAL - PROJECT OPERATION AND MAINTENANCE

C-2.1. **Purpose and Scope.** This subappendix provides policy and general procedural guidance for developing programs for the Project Operation and Maintenance (O&M), and National Emergency Preparedness programs. To provide a general framework and uniform approach for program development and justification, four incremental funding levels have been defined. The various work items have been grouped by Work Category Code (WCC) for purposes of defining the appropriate funding levels. Guidance for the electronic transmission of automated data for submittal of program and program recommendations is contained in the Civil Works Operation and Maintenance Windows Automated Program System (WINABS) Manual, available on the Civil Works Home Page (<http://www.cecer.army.mil/pl/abs>) Procedures for preparing input, for generating reports, and for updating data are also included in that manual.

C-2.2. **Program Development Principles.**

a. **General Philosophy.** The O&M program should be developed in recognition of the need to preserve the existing infrastructure and provide justified levels of service at least cost, in accordance with established criteria. In order to do so, the operations portion of the program should be constrained to the greatest degree possible so as to maximize the proportion of available resources that can be devoted to maintenance requirements. In effect, this means that additional management efficiencies must be employed at every opportunity to generate savings that can be applied toward reducing the inventory of unfunded maintenance.

- (1) **Established Criteria** is defined as the standard with specific guidelines which are formulated by the administration which clarify and describe "justified levels of service."
- (2) **Justified Level of Service** is defined as the delivery of a supportable and defensible amount or degree of project benefits consistent with authorization, use, and administration policies.
- (3) **Least Cost** is defined as the lowest amount of expense that a prudent manager would select, balancing between short and long term economics and considering overall availability of resources.

b. **Relationship to Program Execution.** Good program execution is an essential ingredient in securing the program resources needed to ensure a viable O&M program and thereby continue to provide the Nation with the benefits for which water resources projects were constructed. Development of the program is directly related to program execution. Therefore, it is imperative to develop a sound and realistic program that can be executed as scheduled in accordance with commitments to customers. The baseline programming process described in this subappendix has been designed to facilitate both program development as well as execution. If the procedures outlined in this subappendix are implemented in a consistent manner throughout the Corps, the result should be: (1) a credible program that can be defended within the Administration and Congress, (2) a sufficient allowance of O&M funds and (3) a high degree of fiscal performance.

c. **Operations (Work Category Codes 601-606).** All operations features should be closely examined to reduce costs wherever possible. While there may be some cost fluctuation among individual projects, the goal is to reduce, or at least constrain, the aggregate total growth of operations costs in the MSC to no more than inflation. Accordingly, operations costs in the FY 2000 program have been adjusted for inflation and caps for FY 2001 are provide in Table C-2.5. MSC s shall not exceed these caps in their FY 2001 program submittal. Efficiency improvements should be employed to reduce operations costs, where possible.

d. **Maintenance (Work Category Codes 611-616).** Prudent stewardship of available resources is essential to preserve the existing infrastructure. The growing and aging inventory of projects dictates that

resources be concentrated on the maintenance features of the program to the maximum extent possible. Just as with operations, the maintenance features should be reviewed and efficiency measures employed to reduce costs.

e. **Priorities.** The MSC and district commanders must ensure that the program request provides balanced and equitable treatment to all business functions (navigation, flood damage reduction, ~~navigation~~, hydropower, environmental stewardship, and recreation).

f. **O&M Cost Savings Initiative.** This initiative is a methodology that has been developed to reduce the cost of operating and maintaining the Nation's water resources infrastructure, while still providing justified levels of project services. This cost reduction initiative - along with other locally generated cost saving measures - should be used to seek more efficient operation and maintenance of projects and to help reduce costs. The savings generated by these initiatives would be applied toward reducing the inventory of unfunded maintenance. All business functions should be continually reviewed to achieve cost savings under these initiatives.

### C-2.3. Program Development and Review Process.

a. **Work Category Codes (WCC).** The Civil Works O&M program development process reflects the Corps compliance with the requirements of the Government Performance and Results Act of 1993. Therefore, the program will be submitted in a form that reflects the five business processes/functions established for the O&M mission. These business functions are Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship and Recreation. In addition, each ~~program~~ work package will be tied to a business performance measure and goal for the program year. There are twelve (12) Work Category Codes (WCC) -- six for operations and six for maintenance. The first five of these Work Category Codes are named in accordance with the five business functions (or lines of business) within the operations or maintenance areas. There is also one special WCC in each group for the work ~~items~~ packages that cannot be assigned to one specific business function at a project with multiple authorized purposes (Cat/Class 300, Multiple Purpose with Power projects). These two WCCs are to be used only for the joint activities that are incurred at Category/Class 300 multi-purpose projects with power, i.e., those Corps-operated hydropower projects that have more than one authorized purpose and where joint costs are assessed to some user according to a statutory cost allocation. The goals of this program development process are to simplify reporting requirements, reduce the number of program work packages, and ~~to~~ create a performance-based program along the lines of the five O&M business functions. The following tables are provided to aid in developing work packages aligned with appropriate business functions, WCCs and subWCCs.

- (1) Table C-2.1 lists WCC's and sub-WCCs in numerical order.
- (2) Table C-2.4~~2~~ lists WCC'S and sub-WCCs in alphabetical order.
- (3) Table C-2.3a is a matrix that displays the operation WCCs for each business function.



- (4)..... Table C-2.3b is a matrix that displays the maintenance WCCs for each business function.
- (5) Table C-2.3c describes and defines each WCC for operations activities.
- (6) Table C-2.3d describes and defines each WCC for maintenance activities.

b. **Performance-Based Programming.** Each project must enter the Program Year (PY) performance goals into the Outputs subform of the Project Edit Screen in WINABS for those performance measures which are relevant to the project. For example, PY performance goals would be required for the navigation performance measures for a lock project. At the same project, depending on the activities taking place, performance goals may also be required for the recreation and/or environmental performance measures. The number of performance measures for which performance goals are required, and which must be used to justify project work packages, is based on the activities at the project. ~~Project personnel having questions as to which Performance Measures are appropriate for their site should contact their district's Management Support Branch.~~ The PY Tier II performance measures and goals are shown in Table C-2.5 of this subappendix.

For those critical work packages that the district must have funded in the fiscal year, the districts are encouraged to list in their funding argument/justification a quantified description of how funding that work ~~item~~ package will contribute to accomplishing the Tier II performance goal for the PY. This information is mandatory for work packages falling within the bottom 10 percent of the target funding level and work packages falling within the first 10 percent beyond the target funding level. The funding argument may also list how funding this work ~~item~~ package will contribute to accomplishing the Tier III or IV performance goals for the district or project, where applicable. Although a given project will have a single goal (e.g., 95 percent availability) for a given performance measure, districts may cite different performance levels in the funding arguments for different work packages. For example, funding of the highest priority nondeferrable package may be required to attain 80 percent availability; funding of the next highest priority nondeferrable package may enable the project to meet its goal of 95 percent availability.

c. **Use of New Work Category Codes to Program for Business Functions.** The Work Category Codes are listed as follows:

- 601XX Operation for Navigation Function
- 602XX Operation for Flood Damage Reduction Function
- 603XX Operation for Hydropower Function
- 604XX Operation for Environmental Stewardship Function
- 605XX Operation for Recreation Function
- 606XX Joint Activities for Operations
  
- 611XX Maintenance for Navigation Function
- 612XX Maintenance for Flood Damage Reduction Function
- 613XX Maintenance for Hydropower Function
- 614XX Maintenance for Environmental Stewardship Function
- 615XX Maintenance for Recreation Function
- 616XX Joint Activities for Maintenance

The programming and costing process will allow the total costs for a business function to be identified. For example:

- (1) A single purpose Cat/Class 100 Navigation project would have all its work packages programmed under the 601XX and 611XX WCCs. These two WCCs would identify the total costs for the Navigation business function at this project.

(2) A Cat/Class 200 flood damage reduction project with recreation and water supply as authorized project purposes might have a water supply agreement where the water customer is responsible for paying all costs but recreation. In this case, all work packages that are non-specific (joint costs) would be shown in WCCs 602XX and 612XX Flood Damage Reduction. All recreation-specific ~~costs~~ work packages would be shown in charged to 605XX and 615XX, as appropriate, and these costs would not be used in calculation of the water customer's assessment.

Joint Costs used for repayment purposes should not be confused with the term "Joint Activities" as used for programming purposes under the WCC process. (See below.)

(3) A Cat/Class 300 Multiple Purpose Project with Power will have its specific hydropower work packages shown under WCCs 603XX and 613XX. The work packages for joint activities will be shown under WCCs 606XX and 616XX. This allows the Corps to identify the specific costs for hydropower O&M, plus that portion of the costs for joint activities which ~~are~~ is allocated to hydropower. During the programming process, a roof repair work package for an administration building at a multipurpose project, for example, would have a portion of the cost of that work package identified with the hydropower business function in accordance with its statutory cost allocation formula. The WINABS program adds hydropower portions of each of these joint activity work packages (WCCs 606XX and 616XX) together with the hydropower-specific work packages (WCCs 603XX and 613XX) to give the representative cost of performing the hydropower business function. Work packages representing specific activities for Recreation or Environmental Stewardship will be costed under the WCCs for those specific business functions; WINABS will add them to their allocated portion of the cost of joint activity packages, apportioned according to the power cost repayment allocation for that project. The O&M Program will then show the amount programmed for each (e.g., Hydropower and Recreation) business functions.

Power cost repayment will be accomplished as is currently done; that is, for each project, the individual WCCs will be given the "purpose code" for "joint costs" or "specific costs" as required by the power repayment cost allocation report. Power cost repayment accounting is a separate activity from the programming and execution WCC procedure described herein.

**d. O&M Power Costs in the Pacific Northwest.** Pursuant to the 5 December 1997 Memorandum of Agreement between the Department of Energy, acting by and through the Bonneville Power Administration (BPA), and the Department of the Army, entitled "Direct Funding of Power Operations and Maintenance Costs at Corps Projects", BPA will direct fund O&M Power Costs for Corps projects with hydroelectric power generation facilities for which BPA is the designated Federal power marketing agency. O&M Power Costs include hydropower-specific O&M costs, the power portion of joint O&M activities, and power capital items. The Corps will prepare an Annual Power Program that specifies O&M Power Costs for each applicable project. Annual Power Programs for five consecutive fiscal years will be combined into a Five Year Power Program for purposes of inclusion in the BPA rate base and to fund the Corps O&M power costs.

O&M Power Costs in the Pacific Northwest will be entered into WINABS under a separate appropriation (Bonneville Power Appropriation), and submitted concurrently with the O&M, General program submittal to HQUSACE, in the appropriate funding levels. In addition, work packages for joint activities will be split into two work packages to reflect the appropriate allocation of joint activity costs between the O&M, General and O&M Power Cost appropriations. Work packages for the power portion of joint activity costs require specific dispensation from ASA(CW) to be funded within the O&M, General appropriation. Such packages will be identified as special interest items (see Paragraph C-2.4).

e. **Work Packages - Primary and Supporting Costs.** In developing a work package, all costs required to accomplish the work should be included. This includes the cost of the primary activity as well as all supporting activities that are required to accomplish the work. For example, a dredging work package should contain the cost of the actual dredging process plus the costs for before and after surveys, engineering and design, real estate requirements, contract supervision, water quality monitoring, etc. In this way, a complete and stand-alone decision package is developed, thereby avoiding situations where the primary work is funded without the necessary supporting activities, or vice versa. This process applies to all WCC-based work packages.

In the past, district organization codes could only be assigned at the work package level in the O&M automated program system. Many districts separated supporting cost work packages from primary cost work packages so that they could run reports showing organizational element cost breakouts. To help districts consolidate supporting activity tasks into primary activity work packages, WINABS is designed to give districts the ability to create task records related to each work package. These task records can be associated with specific district organizational elements so that district offices can run reports showing each organization's program request.

f. **Operational vs. Non-Operational and Maintenance Work Packages.** A continuing effort is required to standardize designations of work packages as either operational vs. non-operational or maintenance-related. To provide uniform guidance for the appropriate placement of such work ~~items~~ packages within operations or maintenance Work Category Codes, detailed definitions of the operation and maintenance elements of each WCC are provided in Table C-2.3. In addition to these definitions, the following general principles the following definition of "Operational Maintenance" should be applied, to determine those ~~maintenance work items which should be included under operations Work Category Codes.~~ Operation ~~al~~ maintenance work packages may include maintenance that is ~~is~~ of a recurring nature, ~~that is and is~~ integral to continued project operation. ~~This includes~~ Examples include things such as custodial services, removing ice and snow, debris, trash, cleaning; relamping lighting fixtures, routine testing of lubricating and hydraulic oils; replacing packing in valves and glands; replacing electrical brushes, placing signs and markers, painting of guardrails, wall striping, and touch-up painting, etc. This work is ~~the type~~ performed on an annual basis, typically by hired labor ~~and~~ or small contract (service contract, purchase order, etc.). All other maintenance work, ~~items,~~ specifically, non-recurring and non-routine maintenance, should be placed under maintenance Work Category Codes. It is the nature of the work itself which dictates where it should be placed. That is, annual recurring costs for annual recurring work, such as custodial services, belongs under operations Work Category Codes, while annual recurring costs for non-recurring work items, (e.g., minor roof repairs one year, repainting comfort stations the next, etc.), belong under maintenance Work Category Codes, either within baseline or other funding levels as appropriate.

g. **Appropriate Levels of Work Package Justification.** In a performance-based program, every work package must relate to the accomplishment of an approved performance objective. A work package must be justified based on its contribution to attainment of one or more performance goals for the performance measure(s) of its related performance objective(s). The work package justification is presented as part of the funding argument. The amount of justification required depends on the nature of the work package-objective-measure-goal linkage. These linkages and the necessity of the work package to performance goal attainment must be made clear to all levels of reviewers, both internal and external (e.g., OMB or Congress) to the Corps. The impacts of the work package on specific areas of customer service, project performance, infrastructure investment, personnel or public safety, the local community, statutory requirements, or other considerations should be included in the funding argument, especially for packages in the Non-Deferrable and Deferrable levels. Baseline level work package funding arguments should generally remain constant from year to year; however, the funding arguments for other funding level packages are likely to need updating annually as specific work ~~items~~ items and corresponding justifications change. All work packages in all levels should have a description and funding argument.

h. **Well-Written Descriptions and Funding Arguments.** Care should be taken to write all descriptions and funding arguments clearly and concisely so that the reader can understand and appreciate the work for which funds are being requested. Well-written program justifications are essential to convince reviewers who are not familiar with the work to fund your needs.

1

C-2.4. **Funding Levels.** These funding levels are as follows:

OPERATION AND MAINTENANCE, GENERAL FUNDING LEVELS		
FUNDING LEVEL	TITLE	
1	Baseline	
	Annual O&M Dredging	Annual O&M Non-Dredging
2	Non-Deferrable in the Program Year	
3	Deferrable in the Program Year	
4	Maintenance and Repair Beyond Ability (MRBA)	

The criteria for placing work activities packages in each Work Category Code are included in Table C-2.3. Four levels of funding have been developed for all categories of work based on varying degrees of operation and care of the Nation's capital investment in completed projects. Each work package should consist of work items from a single funding level; similar or related work items which belong in different funding levels should be submitted as separate work packages. The following are general descriptions of the four funding levels:

a. **Baseline.** This level is defined as a level of funding which includes only the relatively fixed, non-discretionary costs of operating and maintaining Corps projects, **and which are necessary in order to attain the established Tier II performance goal in the Program Year.** A work item is a baseline submission if it is required, has been performed on an annual basis for at least five consecutive years through FY 1998 and provides a justified level of service at least cost. This level is further sub-divided between dredging and non-dredging baseline levels. Each of the following criteria must be met in order for a work item to be eligible for this level of funding:

- (1) Only the relatively fixed, non-discretionary costs of operating and maintaining Corps projects should be placed in this level.
- (2) The work must be required to provide a justified level of service at least cost.
- (3) Best business practices should be employed to achieve the best value at lowest cost.
- (4) The work is necessary to attain the established Tier II performance goal in the Program Year.
- (5) A work item must have been performed on an annual basis for at least five consecutive years to be eligible for baseline level funding. This does *not* mean that a work item *must* be placed in the baseline just because it has been performed five years in a row. Meeting the five-year eligibility criterion alone is not sufficient for a work item to be included in the baseline level. Each of the other criteria must be

satisfied first. Even if the five-year criterion (as well as the other criteria) has been met, there may be circumstances where the district chooses *not* to include certain work items in the baseline. In summary, doing something five years in a row is not a "free pass" into the baseline.

(4a) **Dredging.** Includes only costs of annual dredging at Corps projects. A work ~~item~~package for dredging is eligible for a baseline submission if dredging at the specific project is required and has been and will be performed on a regular and recurring basis. The dredging must provide a justified level of service at least cost and meet all of the other eligibility criteria described above. The costs may be either stable or vary significantly from year to year.

(2b) **Non-Dredging.** Includes all other baseline work items that meet the above eligibility requirements. Baseline items include hired (in-house) and contract labor associated with the annual operation of the project and annual non-discretionary maintenance at a specific site, ~~(consisting of a structure and its associated reservoir), including hired (in-house) labor and contract support, e.g., operational maintenance, custodial tasks, grounds maintenance, vehicle maintenance, and routine materials and supplies and all other annual maintenance.~~

Work ~~item~~packages for new projects coming on line or new requirements, e.g., incremental dredging for a deepened channel or operation and maintenance of a new navigation lock, can be added to the baseline by programming in the *non-deferrable in the program year* level and performing the activity for five consecutive fiscal years, at which time that work ~~is eligible~~may be reviewed for inclusion in the baseline. When programming for the sixth consecutive year of performance, the work package should be reassessed to determine if it will continue to be required annually to meet all of the eligibility criteria prescribed above. If so, the work ~~item~~package may be moved to the baseline level, and included as a separate work package or combined with an existing work package, as appropriate. The justification for the package must identify that it is a new baseline package (or which portion of the work package represents a new baseline requirement) and why it qualifies as a baseline item. Performance in six consecutive years by itself does not qualify a package for the baseline; the package must ~~be for a true annual requirement which provides a justified level of service at least cost, and which is necessary in order to attain the established Tier II performance goal in the Program Year.~~ meet all of the eligibility criteria prescribed above, i.e., no "free passes."

b. **Non-Deferrable In Program Year.** This level includes work ~~item~~packages of a non-annual nature, both one-time and cyclical, such as major maintenance, equipment replacement, dredging, special studies, e.g., major rehabilitation evaluation reports, dam safety reconnaissance reports, and others. This level includes cyclical maintenance items, e.g., periodic maintenance, and maintenance of floating plant. Hired (in-house) and contract labor required to perform non-deferrable work packages should be included as part of these packages. Non-deferrable work packages are for ~~work items~~requirements which must be performed in the program year in order to provide for continued project operation at a justified level of service at least cost, and which, if not performed, result in an unacceptable risk of failure to attain the established Tier II performance goal in the Program Year. These work ~~item~~packages, if deferred, would result in a high probability of unsuccessful performance of the project, facility, or function, i.e., contribute to a high risk of failure to attain the established Tier II performance goal in the Program Year. Condition Indices (CI) should be used to help determine this probability, where ~~feasible~~available; for example, the repair of a lock filling valve with a low "CI" would indicate a *Non-Deferrable in the Program Year* status. This funding level includes those *Non-Deferrable In Program Year* ~~work items~~requirements for all Work Category Codes (both operations and maintenance) which are required by Engineer Regulation, Executive Order and/or Federal law, and are performed on a non-annual basis. This includes both cyclical ~~work items~~requirements, e.g., periodic inspections, lock de-waterings, tunnel inspections, O&M manual updates, Reservoir Regulation Manual updates, Master Plan updates, etc.; and one-time ~~item~~srequirements, e.g., fish screen repairs, underground storage tank removal, etc. Consideration should also be given to the relative importance of the project, facility or function. ~~Five-year~~edDe-watering of a critical navigation lock, for example, could be determined to be Non-Deferrable In Program Year. Program limitations dictate taking a certain degree of risk in the non-deferrable level. However, the

submissions in this level must contain all ~~items~~ requirements necessary for ~~required to allow~~ projects to provide continued service and highest priority work items in accordance with the Tier II performance goals for the PY. HQUSACE will review the submissions and, in this process, will work with the field as the program is refined for submission to higher authority.

c. **Deferrable in Program Year.** This level includes those O&M work ~~items~~ packages of a non-annual nature, both one-time and cyclical, such as major maintenance, equipment replacement, dredging, special studies, and others. These work ~~items~~ packages should be performed in the program year, and are reasonable and prudent investments, which are economically and technically justified, to preserve the integrity of the structures and ensure the future operability of the project for the justified level of service at the least cost. Delays in funding these work ~~items~~ packages may not necessarily have an adverse impact on the operation of the project in the Program Year but may result in deterioration of project features and, consequently, increased repair costs at the time the work is performed at some future date. Delay of these work ~~items~~ packages is not expected to impact the accomplishment of the PY Tier II performance goals. This level also may include those work ~~items~~ packages which will result in increased efficiencies and lowered project operating and/or maintenance costs and FTE. It also may include work ~~items~~ packages which will result in an addition to the project's capabilities or features, thereby increasing the level of service to the public, provided it is within the scope of the project's authorized purposes and justified by the increased usage and benefits of the project. This funding level includes those *Deferrable in Program Year* ~~work items~~ requirements for all Work Category Codes (both operations and maintenance) which are required by Engineer Regulation, Executive Order and/or Federal law, and are performed on a non-annual basis. This includes both cyclical ~~work items~~, requirements, such as periodic inspections, lock de-waterings, tunnel inspections, O&M manual updates, Reservoir Regulation Manual updates, Master Plan updates, etc.; and one-time ~~items~~ requirements, such as fish screen repairs, underground storage tank removal, etc.

d. ~~MRBA~~ (Maintenance and Repair Beyond the Ability of the District) **(MRBA)**. This funding level includes those maintenance and repair ~~work~~ packages having a minimum cost of \$100,000, that should be performed to provide the justified level of service at least cost ~~which are not resource constrained, but are would be~~ physically impossible for the district to accomplish during the Program Year, regardless of funding availability. MRBA also includes additions and efficiency improvements performance goal attainment work packages that are beyond the ability of the district. ~~These additions and efficiency improvements~~ These performance goal attainment work packages will also be identified by the special group interest item codes described in the paragraph C-2.5 WINABS data entry screen for each work item. Levels 1 through 3 represent work that the District can accomplish in the PY if funded. Level 4 is for those work ~~items~~ packages that could not be performed even if additional resources were made available.

e. **Funding Targets.** The MSC funding targets displayed in Table C-2.4 are the starting point for the development of the final program submittal that is presented to OMB and to Congress. Several adjustments are made to your program ~~during this final phase of preparation after it has been submitted to HQUSACE~~. These adjustments depend upon what is included in your program submittal - both within and outside of your target. MSC's should insure that every legitimate O&M need is included and properly prioritized within their program submittal so that their final program is based on the complete needs of the MSC.

C-2.5. **Special Interest Items.** In order to highlight specific packages, the following special interest items have been defined. HQUSACE may add to or delete special interest items as needed in each Program Year. Special interest items are not additional funding levels and any given ~~work~~ package may fall into all, none, or any number of special interest item categories. The program reviewer may call for a WINABS report for all work ~~items~~ packages in a special interest item category. When entering data into the WINABS, system you will be prompted to indicate if a work package falls into one or more of the following categories:

Special Interest Items
Performance Goal Attainment
Endangered Species Act Activities
Continuing Contract from PY-1
Major Maintenance
Dredged Material Management Plan Studies
New Recreation Facilities
<u>Power Portion of Joint Activities in the Pacific Northwest</u>

A description of each of these special interest items follows:

\_\_\_a. **Performance Goal Attainment.** This group includes operations or maintenance work packages for activities beyond the baseline level which would provide a project, having performance that is historically **and** significantly lower than the established Tier II performance goal for a specific business function, with incremental additional funding to repair, replace, or resolve the O&M problem inhibiting goal attainment. A work package of this type is to be placed in the Non-Deferrable level and should represent only the incremental additional funding requested for increased effort towards goal attainment. (Do not double-count the cost; this package should not be the sum of the differential cost and the current baseline funding requested for this work ~~item~~ package). In some cases, the extra work required to attain a performance goal may take several years to result in goal attainment; it is expected that many “**Performance Goal Attainment**” packages will be for incremental improvements over several consecutive program years. Fiscal resources are not generally available to support 10%-20% gains in performance (e.g., availability) in a single year at any project. For example:

A multi-chamber lock has been operating at a historical availability of 83 percent for the last decade due to recurring gate arm motor system failures. In order to attain an availability goal of 95 percent, it has been determined that an additional 520 man-hours of focused preventive maintenance is required annually. A new non-deferrable WCC 60110 work package for this ~~extra operational~~ enhanced preventive maintenance would be flagged as a “Performance Goal Attainment” special interest item (i.e., an activity required to raise performance by 12 percent over one or more years). It would be typical to ask for 20 percent of the total extra resources (e.g., 20 percent of the 540 man-hours) in the PY, 40 percent of the total extra resources (e.g., 40 percent of the 540 man-hours) in PY+1, 60 percent in PY+2, etc. If the package is funded for five consecutive years, and is at that time assessed as a continuing requirement, and it meets all the baseline funding level criteria, then it may be moved to the baseline level and incorporated into the existing baseline WCC 60110 work package, which currently represents funding at the 83 percent performance level.

\_\_\_The districts and MSCs have the first-line responsibility to review and approve proposed “Performance Goal Attainment” work packages, based on their knowledge of the sources of lowered performance at a specific project. All internal efforts to resolve low performance through changes in organization, policy, management, personnel, or business processes should be investigated and tested, with verification at the district level, prior to inclusion of a “Performance Goal Attainment” work package by a project. These packages are designed to assist projects which have attempted, through acceptable business practices, all other means to attain their goal(s).

b. **Endangered Species Act Activities.** Any work functions that are to be performed in order to comply with the Endangered Species Act will be given this special group interest item indicator code.

c. **Continuing Contract from PY-1.** Work packages representing contracts that will be continued from PY-1 into the PY will be given this special group interest item indicator code.

d. **Major Maintenance.**

(1) **Definition.** Major maintenance is defined as a non-repetitive item of work or aggregate items of related work ~~in~~for which the total estimated cost exceeds \$3 million, and ~~which~~ does not qualify as Major Rehabilitation. This designation is not applicable to dredging, but it is applicable to dredged material disposal facilities. The related items of work should include all items required to make the work effective for its desired purpose. Optional or casually-related work which is not essential to the major maintenance item should be programmed, prioritized, and justified as ~~any other~~a separate work function package, or part of another work package, as appropriate.

(2) **Program Submission.** Supplemental justification will be included in the narrative description for each package. See paragraph 11 of the Main Text for the requirements.

e. **Dredged Material Management Plan (DMMP) Studies.**

(1) **General Requirements.** Dredged Material Management Plans (DMMPs) are developed to identify measures necessary to manage the volume of material estimated to be dredged over a twenty-year planning horizon. Study activities required to develop DMMPs for existing Federal navigation projects maintained by the Corps of Engineers, both inland and coastal, will be funded in the O&M account. All navigation projects for which maintenance dredging is expected to be required within the next ten years are eligible for the expenditure of funds for DMMP studies, subject to the following:

(a) **BY Priorities.** DMMPs will be prepared for all eligible projects on a priority basis, commensurate with the urgency and significance of impediments to continued maintenance. Requests for funding to initiate DMMP studies in the PY will be considered on a national priority basis, upon HQUSACE (CECW-O) review of submission documents. MSC's will ensure that highest priority is given to projects for which presently used disposal sites do not have sufficient capacity to accommodate disposal requirements through 2009~~10~~. DMMPs generally are not required when existing disposal sites, including confined disposal sites, have sufficient capacity to contain all material estimated to be dredged over the next twenty years, provided that there are no foreseeable impediments to use of these sites.

(b) **Non-inland-waterway Projects.** DMMPs for all projects, exclusive of those which are part of the fuel-taxed inland waterways system, will be developed in accordance with Policy Guidance Letter (PGL) No. 40, Dredged Material Management Study Cost Sharing.

(2) **Categorization.** All costs associated with DMMP studies should be included in Work Category Code 60123. The studies should be clearly identified as "Dredged Material Management Plans" in the work package description, including the code "DMMP" as an indicator code. A Supplemental Justification Sheet in the format shown on ~~page 1 of~~ Illustration C-2.2 shall be submitted for all projects requiring DMMPs, with a total cost (whether single- or multi-year) of \$400,000~~\$500,000~~ or more. ~~A Supplemental Information Sheet, in the format shown on pages 2 and 3 of the same illustration (Illustration C-2.2), shall be attached to the Supplemental Justification Sheets. These~~ This sheets should be forwarded to reach HQUSACE (CECW-BC) by 1 July ~~1999~~2000.

f. **f.—New Recreation Facilities.** Work packages related to the construction of new recreation facilities will be given this special interest item indicator code. See also Subappendix C-4 for information requirements associated with these work packages.

g. **Power Portion of Joint Cost Activities in the Pacific Northwest.** Work packages for joint cost activities in the Pacific Northwest will be assigned this special interest item indicator code if the Bonneville Power Administration is not going to provide funding for the power portion in accordance with the terms of the 22 December 1997 direct funding MOA.



C-2.6. **Unaccomplished Operation and Maintenance and Repair Backlog (UMAR) Reporting Requirements.** District and MSC offices are encouraged to develop ~~unaccomplished~~complete operation and maintenance programs so that they might better anticipate future program management requirements. It is important that *all* justified ~~maintenance~~ requirements funded or unfunded, be identified, ~~even though it may be unlikely so that in the event that sufficient additional resources will be made available to for infrastructure preservation, appropriate funding prioritization decisions can be made about work packages which may originally have appeared to be below the funding level, finance the work.~~ Identification of ~~all unfunded requirements~~backlog is critical in order to understand and quantify the condition of the water resources infrastructure, and the quality of associated services. It is equally important that the ~~unfunded requirements~~identified backlog be a realistic assessment of ~~maintenance, repair, and replacement items that are truly needed~~requirements, and not a "wish list" of nice-to-have enhancements.

a. **Unfunded Infrastructure Maintenance and Repair. Unfunded Backlog.** ~~Infrastructure maintenance~~Backlog is defined as those operation and unfunded maintenance, repair, and replacement work items which are required and should have been funded by the PY in order to provide reasonable assurance that project performance goals can continue to be met. Backlog may occur in any line of business and is not limited to infrastructure-related work packages. Deferred maintenance of a project feature or deferred update of a project exhibit for instance, may both be valid examples of backlog. ~~to maintain Corps Civil Works infrastructure in such a condition that it can continue to be used for its designated purpose, including natural resource features. Unfunded infrastructure maintenance and repair is the sum of unfunded maintenance work packages (WCCs 611XX through 616XX) including MRWA (Maintenance and Repair Within Ability), MRBA, and Major Rehabilitation work packages. In addition, Total backlog is the sum of backlog from all WCCs and at all program funding levels. The following items, however, are excluded from unfunded infrastructure maintenance backlog:~~

- (1) Additions;
- (2) Efficiency improvements;
- (3) Maintenance or repair ahead of schedule or prior to demonstrated need or deficiency;
- (4) WCCs 61X51 and 61X52 (real estate management activities);
- ~~(5) Studies, manuals, and as-built drawings;~~
- ~~(6)(5) Maintenance of non-Corps facilities (however, maintenance of dredged material disposal sites on non-Corps property *should be* included);~~
- ~~(7) Permanent operating equipment maintenance, repair, and replacement.~~

b. **Permanent Operating Equipment Maintenance, Repair, and Replacement (POEMRR).** This is defined as unfunded maintenance, repair, and replacement work packages for equipment which is not permanently installed or affixed to Corps structures. (Installed equipment, e.g., gantry cranes and installed generators, should be included under Unfunded Infrastructure Maintenance and Repair as described in Paragraph C-2.6.a above). These work items are justified unfunded maintenance and repair items which do not directly impact upon the condition of Corps Civil Works infrastructure. Permanent operating equipment maintenance excludes additions and efficiency improvements, and maintenance or repair ahead of schedule or prior to demonstrated need or deficiency. Total permanent operating equipment maintenance requirements will be presented by WCC. Since the maintenance of permanent operating equipment is now rolled into the WCC 61X10 of each line of business, POEMRR should be reported by line of business. **Critical Backlog.** Work packages which are included in the program at the nondeferrable level but are not funded are designated as critical backlog. Critical backlog is also a component of total backlog.

C-2.7. **Cost Estimates.**

a. **~~Projections -- Non-Dredging Projects.~~** Field offices will compute costs based on PY-1 cost projections. All cost estimates will be projected to levels based on inflation factors and assumptions provided in the main part of this EC.

b. **~~Projections -- Baseline Maintenance Dredging Projects.~~** Baseline dredging projects are those at which dredging has been performed annually for at least five consecutive fiscal years through PY-3. The established cost estimating methodology will be employed for projects with dredging-related expenditures of over \$100,000 per year.

(1) **~~Projects with maintenance dredging expenditures under \$100,000 per year.~~** For projects at which the dredging and dredging-related expenditures did not exceed \$100,000 in each of the five previous fiscal years (PY-7 through PY-3), no new guidance is provided. Districts should develop these projections consistent with the goal of providing a justifiable level of service at least cost.

(2) **~~Projects with maintenance dredging expenditures of a minimum of \$100,000 per year.~~** The following estimating process applies all program requests for annual maintenance dredging under the Work Category Code 61121, maintenance dredging, for projects that have a Civil Works Identification System (CWIS) number and that have expended a minimum of \$100,000 in each of the five fiscal years, PY-7 through PY-3. The process for developing programs under the WCC 61121 for large dredging projects is as follows:

**Step 1.** Gather historical dredging and dredging-related expenditure data on each Civil Works dredging project and compute the average expenditure over the five-year period PY-7 through PY-3. The Corps of Engineers Financial Management (CEFMS) be used as the source of direct expenditures for the current 33.11 feature cost code. Under CEFMS, Engineering and Design (E&D) and Supervisory and Administrative (S&A) expenditures prior to FY 1999 were accounted for under separate accounts. It is often difficult to separate the E&D and S&A costs associated with maintenance dredging. Where records are not available to distribute E&D and S&A costs to maintenance dredging, a pro rata distribution will be estimated based on the ratio of contract costs for maintenance dredging at a project to all contract costs at the project. The five-year average annual maintenance dredging costs will include contract costs, E&D and S&A costs. Condition survey and costs associated with maintenance and construction of dredged material disposal facilities will not be included. Survey costs will be programed under WCC 60121 and disposal area maintenance and construction costs under the WCC 61122.

**Step 2.** Determine baseline requirements for large dredging projects by selecting those projects with a minimum dredging and dredging-related expenditure of \$100,000 in each of the five years from PY-7 through PY-3. Compute the average dredging-related expenditure by project for each of these projects. Use the following inflation factors to express each year's costs in PY dollars:

<u>YEAR</u>	<u>FACTOR</u>
1994	1.1279
1995	1.0989
1996	1.0727
1997	1.0439
1998	1.0217

**Step 3.** The inflated five-year averages, as calculated above, will serve as the initial program estimates for dredging at each project. Assess these estimates and determine their adequacy for each project's anticipated PY dredging requirements. If necessary, the inflated five-year average may be adjusted up or down to better reflect the anticipated project dredging requirements. No additional justification is required to effect a downward adjustment. If a project's dredging program is increased from the inflated five-year average, a written justification of the compelling circumstances must be furnished to the MSC with the program submittal.

**Step 4.** The MSC will then compute a MSC five-year average for baseline requirements for large dredging projects by adding the averages of each of these projects within the MSC. The MSC goal for the PY program is to keep the total request for Work Category Code 61121 for these under the five-year average total for all such dredging projects in the MSC. The program request for any one project with large baseline maintenance dredging requirements can be more than its five-year average as long as the total program request for such projects within the MSC is under the five-year average for the MSC. This flexibility gives managers some leeway in developing project programs. Any MSC program requests that exceed the five-year average must be justified to HQUSACE (CECW-O) with the program submittal.

**c. Projections - Non-annual Maintenance Dredging Projects.** Project programs for aintenance dredging projects which do not meet the criteria for baseline dredging projects as defined above shall be estimated consistent with the goal of providing a justified level of service at the least cost. Non-annual maintenance dredging should be requested only for areas in which the lack of dredging will cause an unacceptable risk of failing to attain the PY Tier II performance goal for this line of business.

**4b. Rounding.** All cost estimates shall be rounded to the nearest one thousand dollars (\$1000). Because of serious complications in aggregating functional, regional and national summaries, it is imperative that everyone at all levels strictly adhere to this requirement without exception.

#### C-2.8. Rank Assignments.

a. **Work Groupings.** The smallest increment of work for O&M programming purposes is a work item or task. Examples of tasks are trash pickup at a recreation area, mowing a levee, or painting a lock gate. In the program system, these tasks may be grouped into work packages by Work Category Codes to represent general areas of work such as maintenance of 15 of 30 recreation sites during May through September or painting lock gates at locks 1-4. Work packages also represent the criticality and relative importance of the work. For example, the relatively fixed, non-discretionary costs of operating and maintaining a major commercial navigation lock would be included in the baseline level work package, while non-annual or one-time maintenance would be placed in lower (non-deferrable or deferrable) level work packages. Funding levels are grouped by Work Category Code, as shown in Table C-2. The final grouping of the hierarchy is the project level. All work must be authorized in specific projects.

b. **Rankings.** Tasks at projects will be developed to describe the funding requirement for each project and will not be aggregated at a higher level than that provided by the funding level descriptions. Tasks should be organized into the various funding levels in accordance with the level descriptions for various categories of work outlined in Table C-2.3. For simplicity, only individual tasks or a collection of related equivalent-priority tasks within a category at a level that can be considered one discrete element are defined as a work package. A work package can be a single task or group of related and equivalent-priority tasks, encompassing both primary and supporting costs, by definition. In order to minimize data entry, districts are encouraged requested to consolidate equivalent baseline level tasks that are performed on a routine basis each year. Priorities will be assigned to each work package. Ranking of individual work packages will be assigned by the district and MSC within each level. No ranking across levels is allowed; e.g., all baseline work packages will be ranked higher than the highest-ranked *non-deferrable in the program year* package. To better ensure appropriate rank, work packages will contain a code indicating the funding level where the activity belongs. For example, a dredging activity that meets the definition for the *non-deferrable in the program year* level should be given the funding level code "2".

c. **Preliminary Rankings.** An automatic rank assignment program is a feature of WINABS that can be used as a preliminary step to initiate the MSC ranking process. However, MSC's are cautioned not to use this feature for final rank assignments. This feature is entirely optional and its use is at the discretion of the individual field office. It is not intended to supplant the decision-making process of the organization.

d. **Final Rankings.** Development of final rankings should be an iterative process that employs all the knowledge and support tools available to the decision maker. In developing the national program, HQUSACE will generally rely on the final rankings assigned by the MSC, provided they meet the funding level definitions and overall policy. It is therefore important that rank assignments be made in accordance with the relative importance of the work so as to ensure that the highest priority activities can be accomplished within available resource limits. Ranking of work items within the *non-deferrable in the program year* and deferrable levels will follow the priorities for operation and maintenance work items as discussed in Paragraph C-2.2. To preserve the integrity of the program process, it is essential that districts and MSCs adhere strictly to the funding level definitions presented in Paragraph C-2.4. Artificial assignment of funding levels to individual work packages (e.g., using the program target as the automatic line of demarcation between the non-deferrable and deferrable levels) is not acceptable; each work package should be assigned to the appropriate funding level based on consistent and objective application of the funding level definitions.

#### C-2.9. Condition Indices (CI's).

a. CI's are an important management tool that, coupled with other decision-making criteria, can help to optimize the effective use of limited resources. CI's are numerical indicators of the condition of equipment and structures that provide a quantitative and consistent means of describing their condition. -They will enhance our ability to establish priorities and to justify maintenance requirements. Further information on CI's, and their relationship to maintenance management systems in general, can be found in various publications issued in connection with the *Repair Evaluation, Maintenance and Rehabilitation (REMR) Research Program*.

b. Technical notes are available from the Waterways Experiment Station (WES) that explain the procedures for determining CI's on structures for which a CI methodology have been developed. Copies of these publications may be obtained from CEWS-SC-A(WES).

c. CI procedures ~~are being~~have been developed at the individual component level, (e.g., a miter lock gate, steel sheet pile structure, etc.). This generally lends itself to the work packages used to describe maintenance requirements in the Windows - Automated Program System (WINABS). Therefore, a CI ~~should~~may be entered for each work package record for which a CI procedure has been developed ~~in the following Work Category Codes.:~~ This is not mandatory, but it will help to strengthen the justification for funding if the CI is identified in the funding argument.

#### ~~C-2.10. Navigation-Quadrant.~~

~~a. Use of NAVIGATION-QUADRANT (NAV-QUAD) is mandatory for all districts and operating MSC's with active Corps-maintained commercial navigation locks (barge traffic only). NAV-QUAD is an important management tool that provides economic information for prioritizing annual non-routine maintenance at commercial navigation locks in order to optimize the effective use of limited resources. The net benefit value produced through the use of NAV-QUAD is used to initially rank work packages for each commercial navigation project at the district level. NAV-QUAD does not replace expert judgement, but supplements it; packages may be re-ranked if appropriate. While districts and MSCs use NAV-QUAD to prioritize their commercial navigation lock work packages, HQUSACE uses its results to justify the Corps O&M, General program request and to quantify impacts due to any increases or reductions in the recommended funding level. Further information on NAV-QUAD and how to use the software can be found in the Navigation Quadrant Version 2.0 User's Manual.~~

~~b. NAV-QUAD will be applied to all commercial navigation lock structures which are utilized by barge traffic. Procedures outlined within NAV-QUAD do not have to be applied to the baseline (level 1). They are intended for use within the non-deferrable in the program year and deferrable levels (levels 2 and 3) for WCC 61110 maintenance packages having a minimum cost of \$100,000. NAV-QUAD is not intended for multi-year or multi-lock maintenance work packages. NAV-QUAD is intended as a management tool for single year, single lock, work package funding requirements.~~

~~c. The output measure from the NAV-QUAD analysis to be used in WINABS is Net Navigation Benefits. This output measure may be included for each lock navigation maintenance work package (WCC 61110) within levels 2 and 3, but as a minimum it must be included for those packages falling within 10 percent above or below your anticipated funded level. The Net Navigation Benefit value will be included in the WINABS field established for output indicator codes.~~

C-2.140. **FourFive-year Program.** To assist districts in preparing their ~~unaccomplished maintenance program,~~ future work program and reducing backlog, a methodology has been developed that establishes a ~~four~~five-year horizon for planning purposes. This methodology is optional and is presented here as a tool that

can be used at the discretion of the district. The district has the latitude to use this methodology, variations of it, or other methods to aid in the goal to reduce the backlog. ~~Four~~Five-year programs for the PY and ~~three~~four years following the program year (PY+1, PY+2, ~~and~~ PY+3 and PY+4) should be developed so as to have a realistic mid-range plan for the accomplishment of large ~~backlog~~ UMAR work packages as illustrated in the diagram on the following page. After estimating the amount of anticipated funding available, specific PY ~~UMAR~~backlog work packages are scheduled in the out-years. Districts can overprogram by three percent of anticipated total funding in order to plan for the accomplishment of additional work packages should funding become available, however, each subsequent year's schedule is prepared under the assumption that only the funded portion would actually be accomplished in any year. In this way the benefits of planning for what could be accomplished in the event of additional funding can be derived without distorting the latter years of the ~~four~~five-year program. The objective is to systematically reduce ~~UMAR~~backlog in an efficient manner by extending the detailed planning horizon for accomplishing large ~~UMAR~~backlog work packages beyond the PY program in accordance with the guidance presented below.

a. **~~Four~~Five-year Funding Estimation.** Funding estimates (in PY dollars) can be prepared for each of the categories presented below using the worksheet shown in Illustration C-2.3:

(1) **Total Funded Amount.** This represents the total O&M funding anticipated for the PY and each of the ~~three~~four out-years. Total funding will be estimated by applying the following factors to the total funded amount in the MSC program submittal for the PY:

YEAR	FACTOR
PY+1	0.98
PY+2	0.96
PY+3	0.94
PY+4	0.92

(2) **Baseline.** This includes the baseline funding requirements for the PY adjusted for specific reductions or new baseline requirements that are anticipated to occur each year through PY+~~3~~4.

(3) **Cyclic.** This includes the specific cyclic work scheduled each year through PY+~~3~~4, including periodic inspections, periodic maintenance, etc.

Items (4) and (5) may be estimated using district and MSC discretion, however, a five-year moving average is recommended as an initial estimating methodology.

(4) **Continuing Contracts.** This amount represents the amount of continuing contracts funded each year through PY+~~3~~4.

(5) **New Requirements.** This category simply represents the portion of each year's funded program through PY+~~3~~4 for work packages that were not included in the previous year's program submittal. A comparison of the PY submittal to the PY-1 submittal should be performed in order to identify the amount of new requirements in the PY submittal. This includes work items which were first identified since the previous year's program submittal was prepared (e.g., as the result of an inspection) and that are of high-enough priority to be included in the subsequent year's funded program. (This does not include emergency requirements which are funded via reprogramming as they occur). This category also includes ~~maintenance or repair~~ work items for which the demonstrated need or deficiency was not adequate to be a justified work package in the previous year's submittal, but which have deteriorated, or increased in program priority, during the course of the year since the previous PY submittal to the point that they merit funding in the subsequent PY submittal.

(6) **Funded UMARBacklog**. This represents the amount of discretionary funding anticipated to be available to fund PY UMARbacklog work packages each year through PY+34. This amount is calculated by subtracting Items (2) through (5) from Item (1) above. (A negative number may result, indicating that no funds are available to fund PY UMARBacklog items in this out-year).

(7) **Overprogrammed UMARBacklog (Three Percent of Total Funding or \$1 Million)**. Districts and MSCs will be allowed to overprogram by an amount equal to three percent of the estimated funded program (from Item 1 above), or \$1 million, whichever is greater, in each year through PY+34.

(8) **Total Scheduled UMARBacklog**. The total amount available for scheduling UMARbacklog work packages equals the funded amount calculated for Item 6 plus the overprogrammed amount calculated in Item (7) above.

b. **FourFive-year UMARBacklog Program Preparation**. The ~~four~~five-year program can be prepared by districts and MSC's using the schedule format displayed in Illustration C-2.4. A separate schedule should be prepared for each year through PY+34. Each schedule should be completed in accordance with the following guidance.

(1) The totals for Items (1) through (5) for PY+1 from the Worksheet for FourFive-year Program (shown in Illustration C-2.3 and described in C.2.11.a above) will be entered in Lines 1 through 5 of the FourFive-year UMARBacklog Program for PY+1. A subtotal for Lines 2 through 5 is then calculated.

(2) UMARBacklog work packages from the PY submittal will be scheduled in Line 6 in order of priority until no additional UMARbacklog work packages can be funded within the PY+1 "Funded UMARBacklog" total (calculated in Line 6 of the funding estimation worksheet). Individual funded UMARbacklog work packages of \$100,000 or greater will be entered as separate line items in order of priority starting with Line 6a. Individual funded UMARbacklog work packages that are less than \$100,000 will be totaled and entered as a single "Funded UMARBacklog Packages less than \$100,000" line item. The sum of all funded UMARbacklog work packages will be entered as the "Total Funded UMARBacklog Packages" for Line 6. (This represents the amount by which the PY UMARbacklog can be reduced if the district/MSC receives the total O&M funding anticipated for PY+1). The sum of Lines 2 through 6 should be equal to, or slightly less than, the "FUNDED TOTAL" shown in Line 1.

(3) Overprogrammed UMARbacklog work packages from the PY submittal will be scheduled in Line 7 in order of priority, starting with the first UMARbacklog package following Step (2) above, until no additional UMARbacklog work packages can be funded within the PY+1 "Overprogrammed UMARBacklog" total (calculated in Line 7 of the funding estimation worksheet). Again, individual funded UMARbacklog work packages of \$100,000 or greater will be entered as separate line items in order of priority starting with Line 7a. Individual funded UMARbacklog work packages that are less than \$100,000 will be totaled and entered as a single "Overprogrammed UMARBacklog Packages less than \$100,000" line item. (This represents the amount by which the PY UMARBacklog could be further reduced if the district/MSC were to receive an additional three percent in total funding). The sum of all overprogrammed UMARbacklog work packages will be entered as the "Total Overprogrammed UMARBacklog Packages" for Line 7. The total (funded and overprogrammed) scheduled UMARbacklog in PY+1 will be entered as the "Total Scheduled UMARBacklog" in Line 8, and should be equal to, or slightly less than, the "Total Scheduled UMARBacklog" amount calculated in Line 8 of the funding estimation worksheet for PY+1.

(4) Steps (1) through (3) above will be repeated to complete the PY+2 and PY+3 FourFive-year Program Schedules, with the following exception. In preparing the Funded UMARBacklog portion of the schedule for PY+2, for example, the first overprogrammed package from Line 7 of the PY+1 Schedule becomes the first package scheduled in Line 6 of the PY+2 Schedule.

C-2.121. **Navigation Projects.** Beginning in FY 1987, all shallow-draft harbors previously financed as a part of a through-waterway in the inland river systems were, and will continue to be, programmed as separate projects. These projects include all activities on each spur or side channel of the old project and exclude only those activities on the main through channel. For the PY when additional projects are identified, districts should call HQUSACE (CECW-O) for a PWID number, if needed.

C-2.132. **Marginal Projects.** For projects, or segments of projects, that have marginal benefits, special care should be taken to ensure that all resource requests are economically justified. If sufficient study detail is not yet available to develop appropriate funding recommendations, program requests should be held to levels at or, preferably, below historic amounts. Major repairs not essential to structural integrity in the PY should be postponed. Operation activities should be constrained to the lowest level possible but should avoid extreme, adverse impacts on project users.

C-2.143. **Evaluation Reports.** Evaluation Reports for Major Rehabilitation and Dam Safety Assurance are to be funded under the O&M account. See Sub-appendix B-2, for additional guidance regarding the Major Rehabilitation and Dam Safety Assurance Programs. Guidance for resourcing pre-construction E&D is as follows:

a. **Major Rehabilitation Program.** After the Evaluation Report has been approved, pre-construction E&D may be included in the Construction, General (CG) program request at the earliest opportunity. Until such program request can be made and funds appropriated under CG, field offices may program O&M funds to perform E&D.

b. **Dam Safety Assurance Program.** See Appendix B for information on resourcing.

C-2.154. **Cultural Resources.** Funding requirements for activities to ensure compliance with the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601) should not be included in program submittal. Specific guidance will be provided at a later date on how and when to make requests for funding of activities to ensure compliance with the NAGPRA. This is a result of the creation of the Mandatory Center of Expertise (MCX) to handle NAGPRA compliance and curation of cultural resources. All of the requirements will be aggregated by HQUSACE (CECW-O) into the program as a separate line item. All curation costs, other than NAGPRA, should be included in the appropriate ~~w~~Work ~~e~~Category ~~e~~Code,

C-2.165. **Special Recreation Use Fees (SRUF).** ~~Funds generated from collecting these fees can be used to supplement the costs to operate, maintain, and, when feasible from a program management standpoint, improve recreation facilities. Overall program management limitations should be carefully considered in determining what activities can be financed with these funds. Funds generated from collecting recreation use fees are returned in O&M, General appropriations for operation, maintenance and improvement of recreation sites and facilities. The construction of new recreation facilities or renovation and/or improvement of existing facilities may be accomplished with these funds if the goal of providing quality public recreation experiences with the most cost efficient management of water resource development projects can be met. Overall budgetary limitations should be carefully considered in determining what activities will be financed with these funds. Routine operation and maintenance of existing sites and facilities should not be compromised to finance new construction or facility improvements. SRUF funded work previously programmed in WCC 60512 and 61512 should now be programmed in WCC 60511 and 61511.~~

C-2.176. **Challenge Partnerships (Challenge Cost Share).** Challenge partnerships are opportunities for public and non-Federal groups and individuals to contribute to and participate in the operation and/or maintenance of recreation facilities and natural resources at Corps projects. These opportunities may consist of



identification, protection, improvement, rehabilitation, preservation, management, or interpretation of natural resources, environmental features, recreation areas and facilities, or cultural resources. Challenge Partnering with others provides a way to leverage the Corps program by sharing the cost of operation and/or managing recreation facilities and natural resources. Policy guidance for the Challenge Partnership program is contained in ER 1130-2-500.

C-2.187. **On-Board Review.** HQUSACE (CECW-BC) may conduct an on-board review in early July. MSC's will be selected at random. Any selected MSC's will be asked to explain the overall priorities used in developing the program request, along with an in-depth examination of work packages on selected projects. Any selected MSC will be notified in June.

C-2.198. **Narrative and Supporting Data.**

a. **Justification of Estimates.**

**Congressional Submission.** Each MSC shall prepare and submit *Justification of Estimate* sheets based on amounts provided by CECW-OM for the project, using the format in Illustration C-2.5, in final form. To avoid illogical precision, no amounts should be rounded to less than \$1,000, using the 5/4 rule. This is a widely read document. To preclude misinterpretations by Congressional and other reviewers, do not use vague, stereotyped, descriptions in the Reason for Change and Maintenance Item column. Standard phraseology is acceptable, if used judiciously, such that the descriptions are clear and understandable to the reader. Be as specific as possible using a condensed version of what the testifying officer would answer if asked by the Sub-Committee the reason for changes from prior year. The tone of statements must reflect a full support of the President's Program request with no hints that amounts may not be adequate. Accordingly, a remark explaining higher amounts is preferable. The typed material in the body will be confined to 6 1/2 inches vertically and 10 inches horizontally, leaving 1/2 inch margins on the left and right sides and 0.607 inch margins at the top and bottom of an 11 X 8-1/2 inch page size. Justification sheets must be submitted as **Microsoft Word WordPerfect** documents over the Corps Mail Network or by computer diskettes. ASCII format is not acceptable because it deletes WordPerfect control codes for formatting. In addition, Project status maps are required for all Major Rehabilitation work that is still being funded under the O&M, General, appropriation. ~~Notwithstanding a proposed Corps-wide conversion to a standard word-processing software package and e-mail system some time this calendar year, instructions presented herein must be adhered to pending annual detailed guidance for the preparation of Congressional Justification of Estimates Sheets to be published as a separate action by CECW-BC.~~

To avoid allocation problems associated with roll-ups, projects spanning more than one district should be entered separately with titles showing the district name, for example:

OHIO RIVER LOCKS AND DAMS, PA (Pittsburgh Dist.)  
OHIO RIVER LOCKS AND DAMS, WV (Huntington Dist.)  
OHIO RIVER LOCKS AND DAMS, KY, IL, IN, OH, & WV (Louisville Dist.)

(Other projects include Ohio River Open Channel Work, McClellan Kerr, Missouri River and the Upper Mississippi River or district-wide activities such as Inspection of Completed Works or Scheduling Reservoir Activities) If a state is included in more than one district, only the primary district should show that state in the title.

~~b. **BY-3 Cost Report.** A computer program - Program 203P558C - is available that will extract prior year cost information from the COEMIS data base and put it into an extract file. Each district or MSC office will run this program against the End of PY-3 72B Extract Tape created from the COEMIS Finance and Accounting Subsystem data base. Districts will electronically transmit the extract file of card images produced by this~~

EC 44-2-17711-2-179  
31 Mar 9900

program to the CEAP WPC21 processor. Instructions for execution of Program 203P558C will be furnished by HQUSACE by separate correspondence.

**Single State Designation for Inspection of Completed Works (ICW), Project Condition Surveys (PCS), Scheduling Reservoir Operations (SRO) and Surveillance of Northern Boundary Waters (SNBW).** Each of these programs shall be represented by a single work package per district. In those cases where these programs are performed in more than one state, the district shall designate a primary state and include all costs under that single primary state.

C-2.2019. **Additional Information**

a. **Database System.** The CEAP WPC21 processor in Portland, OR will be used to submit data to the automated O&M program system.

b. **Correction of Program Submittals.** As in past years, districts and MSCs will be asked to make any necessary corrections through automated program systems after HQUSACE review. If a district or MSC is asked to make corrections, the data base will be reopened to allow access for updating.

c. **Points of Contact.**

<b><u>Question(s) Referring To</u></b>	<b><u>Office</u></b>	<b><u>Telephone</u></b>
Policies, procedures, or format of the Project O&M activity.	CECW-BC	202-761-0799 fax 202-761-0184
ADP input for the same activity	CECW-BC	202-761-0282 fax 202-761-1779
Programs Management staff coordination of Congressional submission of the O&M program.	CECW-BC	202-761-07992 fax 202-761-0184 (e-mail preferred)
Curation\Native American Graves Protection Act (NAGPRA)	CECW-ON	202-761-1791
Condition Indices guidance. Technical notes.	CEWS-SC-A	601-634-2585 fax 601-634-2873

C-2.2420. **Submission Requirements.** Submission time schedules for automated data and hard copies are listed in Paragraph 11 of the main text.

<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
601-- <sup>1/</sup>	Operation for Navigation Functions
60110 **	Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Navigation
60120 <sup>1/</sup>	Studies and Surveys for Navigation
60121*	Studies and Surveys
60122	Major Rehabilitation Evaluation Reports
60123	Environmental Studies and Monitoring for Dredging Purposes
60130 <sup>1/</sup>	Dam Safety for Navigation
60131**	Instrumentation, Data Collection and Analysis
60132*	Formal Periodic Inspections and Reports
60133	Dam Safety Assurance Studies
60140 <sup>1/</sup>	Water Management (Control and Quality) Activities for Navigation
60141	Water Management (Control and Quality) Activities - Analysis and Studies for Navigation
60142	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Navigation
60150*	Real Estate Management for Navigation
60160	Environmental Compliance Management for Navigation
602-- <sup>1/</sup>	Operation for Flood Damage Reduction Functions
60210**	Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Flood Damage Reduction
60220 <sup>1/</sup>	Studies and Surveys for Flood Damage Reduction
60221	Studies and Surveys
60222	Major Rehabilitation Evaluation Reports
60223*	Inspections of Completed Works - Local Protection Projects
60230 <sup>1/</sup>	Dam Safety for Flood Damage Reduction
60231**	Instrumentation, Data Collection and Analysis
60232*	Formal Periodic Inspections and Reports
60233	Dam Safety Assurance Studies
60240 <sup>1/</sup>	Water Management (Control and Quality) Activities for Flood Damage Reduction
60241	Water Management (Control and Quality) Activities - Analysis and Studies for Flood Damage Reduction
60242	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Flood Damage Reduction
60250*	Real Estate Management for Flood Damage Reduction

<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
60260	Environmental Compliance Management for Flood Damage Reduction
603-- <sup>1/</sup>	Operation for Hydropower Functions
60310 <sup>1/</sup>	Operation of Dams, Power Plants, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower
60311**	Operations - Supervision and Engineering
60312**	Hydraulic Expenses
60313**	Electric Expenses
60314**	Miscellaneous Hydraulic Power Generation Expenses
60320 <sup>1/</sup>	Studies and Surveys for Hydropower
60321	Studies and Surveys - Supervision and Engineering
60322	Studies and Surveys - Hydraulic Expenses
60323	Studies and Surveys - Electric Expenses
60324	Studies and Surveys - Miscellaneous Hydraulic Power Generation Expenses
60325	Major Rehabilitation Evaluation Reports
60330 <sup>1/</sup>	Dam Safety for Hydropower
60331**	Instrumentation, Data Collection and Analysis
60332*	Formal Periodic Inspections and Reports
60333	Dam Safety Assurance Studies
60340 <sup>1/</sup>	Water Management (Control and Quality) Activities for Hydropower
60341	Water Management (Control and Quality) Activities - Analysis and Studies for Hydropower
60342	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Hydropower
60350*	Real Estate Management for Hydropower
60360	Environmental Compliance Management for Hydropower
604-- <sup>1/</sup>	Operation for Environmental Stewardship Functions
60410 <sup>1/</sup>	Operation for Environmental Stewardship
60411	Management of Natural Resources
60412	Management and Curation of Archeological and Cultural Resources
60413	Management of Wildlife Mitigation Features
60414	Fisheries Management - Operation of Fish Hatcheries
60415	Fisheries Management - Fish Hauling Activities and Fish Passage Structures

<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
60416	Comprehensive Master Plans
60420	Studies and Surveys for Environmental Stewardship
60430	Reserved
60440 <sup>1/</sup>	Water Management (Control and Quality) Activities for Environmental Stewardship
60441	Water Management (Control and Quality) Activities - Analysis and Studies for Environmental Stewardship
60442	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Environmental Stewardship
60450*	Real Estate Management for Environmental Stewardship
60460	Environmental Compliance Management for Environmental Stewardship
605-- <sup>1/</sup>	Operation for Recreation Functions
60510 <sup>1/</sup>	Operation for Recreation
60511**	Operation/management of Recreation Areas/facilities, Visitor Centers, Reservoirs, Service Facilities and Equipment, Etc. for Recreation
60513	Law Enforcement - Costs and Supervision of Law Enforcement Agreements
60520	Studies and Surveys for Recreation
60530	Reserved
60540 <sup>1/</sup>	Water Management (Control and Quality) Activities for Recreation
60541	Water Management (Control and Quality) Activities - Analysis and Studies for Recreation
60542	Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Recreation
60550*	Real Estate Management for Recreation
60560	Environmental Compliance Management for Recreation
606-- <sup>1/</sup>	Joint Activities for Operations
60610**	Joint Costs for Operations Activities
60620 <sup>1/</sup>	Joint Costs for Studies and Surveys
60621*	Joint Costs for Studies and Surveys
60622	Joint Costs for Major Rehabilitation Evaluation Reports
60630 <sup>1/</sup>	Joint Costs for Dam Safety Activities
60631**	Joint Costs for Instrumentation, Data Collection and Analysis
60632*	Joint Costs for Formal Periodic Inspections and Reports
60633	Joint Costs for Dam Safety Assurance Studies
60640 <sup>1/</sup>	Joint Costs for Water Management (Control and Quality) Activities

<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
60641	Joint Costs for Water Management (Control and Quality) Activities – Analysis and Studies
60642	Joint Costs for Water Management (Control and Quality) Activities – Operation of Water Control Data Systems
60650*	Joint Costs for Real Estate Management Activities
60660	Joint Costs for Environmental Compliance Management Activities
60710 <sup>1/</sup>	National Emergency Preparedness Program (NEPP)
60711	<del>NEPP Management and Operations</del> Continuity of Operations
60712	<del>NEPP Requirements Analysis and Studies</del> National Preparedness Planning
<u>60713</u>	<u>NEPP Support of Emergency Ops Ctrs</u>
<u>60714</u>	<u>NEPP Emergency Water Program</u>
<u>60715</u>	<u>NEPP Continuity of Government</u>
<u>60716</u>	<u>NEPP Training and Exercises</u>
611-- <sup>1/</sup>	Maintenance for Navigation Functions
61110	Maintenance of Locks, Dams, Reservoirs, Levees, Other Structures, Service Facilities, Permanent Operating Equipment, Etc. for Navigation
61120 <sup>1/</sup>	Dredging for Navigation
61121	Dredging Activities for Navigation
61122	Construction and Maintenance of Dredged Material Disposal Facilities for Navigation
61130	Reserved
61140	Purchase/maintenance of Water Management (Control and Quality) Equipment for Navigation
61150 <sup>1/</sup>	Real Estate for Navigation
61151	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Navigation
61152	Resolution of Real Estate Encroachments for Navigation
61153	Boundary Monumentation and Rectification for Navigation
61160	Environmental Compliance (Remedial Actions) for Navigation
61170	Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Navigation
612-- <sup>1/</sup>	Maintenance for Flood Damage Reduction Functions
61210 <sup>1/</sup>	Maintenance for Flood Damage Reduction
61211	Maintenance of Dams, Reservoirs, Other Structures, Service Facilities, permanent Operating Equipment, Etc. for Flood Damage Reduction
61212	Maintenance of Dikes, Revetments, Breakwaters and Similar Structures for

<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
	the Mississippi River and Tributaries (MR&T)
61220 <sup>1/</sup>	Dredging for Flood Damage Reduction
61221	Dredging Activities for Flood Damage Reduction
61222	Construction and Maintenance of Dredged Material Disposal Facilities for Flood Damage Reduction
61230	Reserved
61240	Purchase/maintenance of Water Management (Control and Quality) Equipment for Flood Damage Reduction
61250 <sup>1/</sup>	Real Estate for Flood Damage Reduction
61251	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Flood Damage Reduction
61252	Resolution of Real Estate Encroachments for Flood Damage Reduction
61253	Boundary Monumentation and Rectification for Flood Damage Reduction
61260	Environmental Compliance (Remedial Actions) for Flood Damage Reduction
613-- <sup>1/</sup>	Maintenance for Hydropower Functions
61310 <sup>1/</sup>	Baseline Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower
61311	Baseline Maintenance Supervision for Hydropower
61312	Baseline Maintenance of <u>Hydraulic</u> Structures for Hydropower
61313	Baseline Maintenance of Electric Plant for Hydropower
61314	Baseline Maintenance of Miscellaneous Hydraulic Plant for Hydropower
613n0 <sup>1/</sup>	Non-baseline Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower
613n1	Non-baseline Maintenance Supervision for Hydropower
613n2	Non-baseline Maintenance of <u>Hydraulic</u> Structures for Hydropower
613n3	Non-baseline Maintenance of Electric Plant for Hydropower
613n4	Non-baseline Maintenance of Miscellaneous Hydraulic Plant for Hydropower
61320	Dredging Activities for Hydropower
61330	Reserved
61340	Purchase/maintenance of Water Management (Control and Quality) Equipment for Hydropower
61350 <sup>1/</sup>	Real Estate for Hydropower

<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
61351	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Hydropower
61352	Resolution of Real Estate Encroachments for Hydropower
61353	Boundary Monumentation and Rectification for Hydropower
61360	Environmental Compliance (Remedial Actions) for Hydropower
61370 <sup>1/</sup>	Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Hydropower
61371	Comprehensive Replacement Supervision
61372	Comprehensive Replacement of Structures
61373	Comprehensive Replacement of Electric Plant
61374	Comprehensive Replacement of Miscellaneous Hydraulic Plant
614-- <sup>1/</sup>	Maintenance for Environmental Stewardship Functions
61410 <sup>1/</sup>	Maintenance for Environmental Stewardship
61411	Maintenance of Natural Resources Facilities
61412	Mitigation of Archeological and Cultural Resources
61413	Maintenance of Wildlife Mitigation Features
61414	Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures
61420 <sup>1/</sup>	Dredging for Environmental Stewardship
61421	Dredging Activities for Environmental Stewardship
61422	Construction and Maintenance of Dredged Material Disposal Facilities for Environmental Stewardship
61430	Reserved
61440	Purchase/maintenance of Water Management Equipment (Control and Quality) for Environmental Stewardship
61450 <sup>1/</sup>	Real Estate for Environmental Stewardship
61451	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Environmental Stewardship
61452	Resolution of Real Estate Encroachments for Environmental Stewardship
61453	Boundary Monumentation and Rectification for Environmental Stewardship
61460	Environmental Compliance (Remedial Actions) for Environmental Stewardship Features
615-- <sup>1/</sup>	Maintenance for Recreation Functions
61510 <sup>1/</sup>	Maintenance for Recreation
61511	Maintenance of Recreation Facilities, Visitor Centers, Other Operating Equipment, Etc.



<b>TABLE C-2.1</b> <b>WORK CATEGORY CODES - NUMERICALLY ORDERED</b> (See footnotes at end of Table)	
WORK CATEGORY CODE	DESCRIPTION
61513	Cost Shared Recreation Developments
61520	Dredging Activities for Recreation
61530	Reserved
61540	Purchase/maintenance of Water Management Equipment (Control and Quality) for Recreation
61550 <sup>1/</sup>	Real Estate for Recreation
61551	Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Recreation
61552	Resolution of Real Estate Encroachments for Recreation
61553	Boundary Monumentation and Rectification for Recreation
61560	Environmental Compliance (Remedial Actions) for Recreation
616-- <sup>1/</sup>	Joint Activities for Maintenance
61610	Joint Costs for Maintenance Activities Excluding Dredging
61620 <sup>1/</sup>	Joint Costs for Dredging
61621	Joint Costs for Dredging Activities
61622	Joint Costs for Construction and Maintenance of Dredged Material Disposal Facilities
61630	Reserved
61640	Joint Costs for Water Management Equipment Activities

EC ~~41-2-177~~11-2-179  
31 Mar 9900

61650 <sup>1/</sup>	Joint Costs for Real Estate Activities
61651	Joint Costs for Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits
61652	Joint Costs for Resolution of Real Estate Encroachments
61653	Joint Costs for Boundary Monumentation and Rectification
61660	Joint Costs for Environmental Compliance (Remedial Actions) Activities

1/ SUMMARY COST ACCOUNT/WORK CATEGORY - COSTS MAY NOT BE CHARGED DIRECTLY TO THESE ACCOUNTS.

\*Feature Cost Codes marked with an asterisk require added data in project work description, justification statement, or output measures. See Table C-2.5.

\*\*Although Feature Cost Codes marked with double asterisk require no description or funding argument, requested resources will be in consonance with funding level definition and prior year experience.

**TABLE C-2.2**  
**WORK CATEGORY CODES - ALPHABETICALLY ORDERED**

DESCRIPTION	WORK CATEGORY CODE
Baseline Maintenance Supervision for Hydropower	61311
Baseline Maintenance of Miscellaneous Hydraulic Plant for Hydropower	61314
Baseline Maintenance of Electric Plant for Hydropower	61313
Baseline Maintenance of <u>Hydraulic</u> Structures for Hydropower	61312
Baseline Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	61310 <sup>1/</sup>
Boundary Monumentation and Rectification for Hydropower	61353
Boundary Monumentation and Rectification for Navigation	61153
Boundary Monumentation and Rectification for Environmental Stewardship	61453
Boundary Monumentation and Rectification for Flood Damage Reduction	61253
Boundary Monumentation and Rectification for Recreation	61553
Comprehensive Replacement of Miscellaneous Hydraulic Plant	61374
Comprehensive Replacement Supervision	61371
Comprehensive Replacement of Electric Plant	61373
Comprehensive Replacement of Structures	61372
Comprehensive Master Plans	60416
Construction and Maintenance of Dredged Material Disposal Facilities for Flood Damage Reduction	61222
Construction and Maintenance of Dredged Material Disposal Facilities for Environmental Stewardship	61422
Construction and Maintenance of Dredged Material Disposal Facilities for Navigation	61122
Cost Shared Recreation Developments	61513
Dam Safety for Hydropower	60330 <sup>1/</sup>
Dam Safety Assurance Studies	60333
Dam Safety for Flood Damage Reduction	60230 <sup>1/</sup>

<b>TABLE C-2.2</b> <b>WORK CATEGORY CODES - ALPHABETICALLY ORDERED</b>	
DESCRIPTION	WORK CATEGORY CODE
Dam Safety for Navigation	60130 <sup>1/</sup>
Dam Safety Assurance Studies	60133
Dam Safety Assurance Studies	60233
Dredging Activities for Flood Damage Reduction	61221
Dredging Activities for Environmental Stewardship	61421
Dredging Activities for Recreation	61520
Dredging for Flood Damage Reduction	61220 <sup>1/</sup>
Dredging Activities for Navigation	61121
Dredging for Environmental Stewardship	61420 <sup>1/</sup>
Dredging Activities for Hydropower	61320
Dredging for Navigation	61120 <sup>1/</sup>
Electric Expenses	60313**
Environmental Compliance Management for Flood Damage Reduction	60260
Environmental Compliance (Remedial Actions) for Recreation	61560
Environmental Compliance (Remedial Actions) for Navigation	61160
Environmental Compliance Management for Navigation	60160
Environmental Compliance (Remedial Actions) for Flood Damage Reduction	61260
Environmental Compliance (Remedial Actions) for Hydropower	61360
Environmental Studies and Monitoring for Dredging Purposes	60123
Environmental Compliance Management for Recreation	60560
Environmental Compliance Management for Hydropower	60360
Environmental Compliance Management for Environmental Stewardship	60460
Environmental Compliance (Remedial Actions) for Environmental Stewardship Features	61460
Fisheries Management - Operation of Fish Hatcheries	60414

**TABLE C-2.2**  
**WORK CATEGORY CODES - ALPHABETICALLY ORDERED**

DESCRIPTION	WORK CATEGORY CODE
Fisheries Management - Fish Hauling Activities and Fish Passage Structures	60415
Formal Periodic Inspections and Reports	60232*
Formal Periodic Inspections and Reports	60332*
Formal Periodic Inspections and Reports	60132*
Hydraulic Expenses	60312**
Inspections of Completed Works - Local Protection Projects	60223*
Instrumentation, Data Collection and Analysis	60131**
Instrumentation, Data Collection and Analysis	60231**
Instrumentation, Data Collection and Analysis	60331**
Joint Costs for Dredging	61620 <sup>1/</sup>
Joint Costs for Dredging Activities	61621
Joint Costs for Construction and Maintenance of Dredged Material Disposal Facilities	61622
Joint Activities for Maintenance	616-- <sup>1/</sup>
Joint Costs for Maintenance Activities Excluding Dredging	61610
Joint Costs for Water Management Equipment Activities	61640
Joint Costs for Studies and Surveys	60621*
Joint Costs for Environmental Compliance (Remedial Actions) Activities	61660
Joint Costs for Boundary Monumentation and Rectification	61653
Joint Costs for Environmental Compliance Management Activities	60660
Joint Costs for Real Estate Management Activities	60650*
Joint Costs for Real Estate Activities	61650 <sup>1/</sup>
Joint Costs for Studies and Surveys	60620 <sup>1/</sup>
Joint Costs for Water Management (Control and Quality) Activities - Operation of Water Control Data Systems	60642

<b>TABLE C-2.2</b> <b>WORK CATEGORY CODES - ALPHABETICALLY ORDERED</b>	
DESCRIPTION	WORK CATEGORY CODE
Joint Costs for Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits	61651
Joint Costs for Water Management (Control and Quality) Activities - Analysis and Studies	60641
Joint Costs for Water Management (Control and Quality) Activities	60640 <sup>1/</sup>
Joint Costs for Dam Safety Assurance Studies	60633
Joint Costs for Formal Periodic Inspections and Reports	60632*
Joint Costs for Instrumentation, Data Collection and Analysis	60631**
Joint Costs for Resolution of Real Estate Encroachments	61652
Joint Costs for Dam Safety Activities	60630 <sup>1/</sup>
Joint Costs for Major Rehabilitation Evaluation Reports	60622
Joint Activities for Operations	606-- <sup>1/</sup>
Joint Costs for Operations Activities	60610**
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Flood Damage Reduction	61251
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Environmental Stewardship	61451
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Navigation	61151
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Recreation	61551
Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for Hydropower	61351
Law Enforcement - Costs and Supervision of Law Enforcement Agreements	60513
Maintenance of Natural Resources Facilities	61411
Maintenance for Environmental Stewardship	61410 <sup>1/</sup>
Maintenance for Environmental Stewardship Functions	614-- <sup>1/</sup>

**TABLE C-2.2**  
**WORK CATEGORY CODES - ALPHABETICALLY ORDERED**

DESCRIPTION	WORK CATEGORY CODE
Maintenance for Hydropower Functions	613-- <sup>1/</sup>
Maintenance for Recreation Functions	615-- <sup>1/</sup>
Maintenance of Wildlife Mitigation Features	61413
Maintenance of Dams, Reservoirs, Other Structures, Service Facilities, Permanent Operating Equipment, Etc. for Flood Damage Reduction	61211
Maintenance for Flood Damage Reduction Functions	612-- <sup>1/</sup>
Maintenance of Dikes, Revetments, Breakwaters and Similar Structures for the Mississippi River and Tributaries (MR&T)	61212
Maintenance for Navigation Functions	611-- <sup>1/</sup>
Maintenance of Locks, Dams, Reservoirs, Levees, Other Structures, Service Facilities, Permanent Operating Equipment, Etc. for Navigation	61110
Maintenance for Recreation	61510 <sup>1/</sup>
Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures	61414
Maintenance for Flood Damage Reduction	61210 <sup>1/</sup>
Maintenance of Recreation Facilities, Visitor Centers, Other Operating Equipment, Etc.	61511
Major Rehabilitation Evaluation Reports	60122
Major Rehabilitation Evaluation Reports	60325
Major Rehabilitation Evaluation Reports	60222
Management of Wildlife Mitigation Features	60413
Management of Natural Resources	60411
Management and Curation of Archeological and Cultural Resources	60412
Miscellaneous Hydraulic Power Generation Expenses	60314**
Mitigation of Archeological and Cultural Resources	61412
National Emergency Preparedness Program (NEPP)	60710 <sup>1/</sup>
NEPP Requirements Analysis and Studies	60712
NEPP Management and Operations	60711

<b>TABLE C-2.2</b> <b>WORK CATEGORY CODES - ALPHABETICALLY ORDERED</b>	
DESCRIPTION	WORK CATEGORY CODE
<u>NEPP Support of Emergency Ops Ctr</u>	<u>60713</u>
<u>NEPP Training and Exercises</u>	<u>60716</u>
Non-baseline Maintenance Supervision for Hydropower	613n1
Non-baseline Maintenance of Power Plants, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	613n0 <sup>1/</sup>
Non-baseline Maintenance of <u>Hydraulic</u> Structures for Hydropower	613n2
Non-baseline Maintenance of Miscellaneous Hydraulic Plant for Hydropower	613n4
Non-baseline Maintenance of Electric Plant for Hydropower	613n3
Operation for Recreation	60510 <sup>1/</sup>
Operation/management of Recreation Areas/facilities, Visitor Centers, Reservoirs, Service Facilities and Equipment, Etc. for Recreation	60511**
Operation for Recreation Functions	605-- <sup>1/</sup>
Operation for Environmental Stewardship	60410 <sup>1/</sup>
Operation for Environmental Stewardship Functions	604-- <sup>1/</sup>
Operation of Dams, Power Plants, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Hydropower	60310 <sup>1/</sup>
Operation for Hydropower Functions	603-- <sup>1/</sup>
Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Flood Damage Reduction	60210**
Operation for Flood Damage Reduction Functions	602-- <sup>1/</sup>
Operation of Locks, Dams, Reservoirs, Service Facilities, Permanent Operating Equipment, Etc. for Navigation	60110 **
Operation for Navigation Functions	601-- <sup>1/</sup>
Operations - Supervision and Engineering	60311**
Purchase/maintenance of Water Management (Control and Quality) Equipment for Navigation	61140
Purchase/maintenance of Water Management (Control and Quality) Equipment for	61240



**TABLE C-2.2**  
**WORK CATEGORY CODES - ALPHABETICALLY ORDERED**

DESCRIPTION	WORK CATEGORY CODE
Flood Damage Reduction	
Purchase/maintenance of Water Management Equipment (Control and Quality) for Environmental Stewardship	61440
Purchase/maintenance of Water Management Equipment (Control and Quality) for Recreation	61540
Purchase/maintenance of Water Management (Control and Quality) Equipment for Hydropower	61340
Real Estate for Hydropower	61350 <sup>1/</sup>
Real Estate for Flood Damage Reduction	61250 <sup>1/</sup>
Real Estate Management for Hydropower	60350*
Real Estate for Environmental Stewardship	61450 <sup>1/</sup>
Real Estate for Navigation	61150 <sup>1/</sup>
Real Estate Management for Flood Damage Reduction	60250*
Real Estate for Recreation	61550 <sup>1/</sup>
Real Estate Management for Environmental Stewardship	60450*
Real Estate Management for Recreation	60550*
Real Estate Management for Navigation	60150*
Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Hydropower	61370 <sup>1/</sup>
Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) Projects for Navigation	61170
Reserved	60530
Reserved	61630
Reserved	61130
Reserved	61230
Reserved	61330
Reserved	61530

<b>TABLE C-2.2</b> <b>WORK CATEGORY CODES - ALPHABETICALLY ORDERED</b>	
DESCRIPTION	WORK CATEGORY CODE
Reserved	60430
Reserved	61430
Resolution of Real Estate Encroachments for Hydropower	61352
Resolution of Real Estate Encroachments for Navigation	61152
Resolution of Real Estate Encroachments for Flood Damage Reduction	61252
Resolution of Real Estate Encroachments for Environmental Stewardship	61452
Resolution of Real Estate Encroachments for Recreation	61552
Studies and Surveys for Environmental Stewardship	60420
Studies and Surveys for Navigation	60120 <sup>1/</sup>
Studies and Surveys	60121*
Studies and Surveys - Miscellaneous Hydraulic Power Generation Expenses	60324
Studies and Surveys - Electric Expenses	60323
Studies and Surveys - Hydraulic Expenses	60322
Studies and Surveys - Supervision and Engineering	60321
Studies and Surveys for Flood Damage Reduction	60220 <sup>1/</sup>
Studies and Surveys	60221
Studies and Surveys for Recreation	60520
Studies and Surveys for Hydropower	60320 <sup>1/</sup>
Water Management (Control and Quality) Activities – Operation of Water Control Data Systems for Hydropower	60342
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Environmental Stewardship	60442
Water Management (Control and Quality) Activities for Recreation	60540 <sup>1/</sup>
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Flood Damage Reduction	60242
Water Management (Control and Quality) Activities - Analysis and Studies for	60241

<b>TABLE C-2.2</b> <b>WORK CATEGORY CODES - ALPHABETICALLY ORDERED</b>	
DESCRIPTION	WORK CATEGORY CODE
Flood Damage Reduction	
Water Management (Control and Quality) Activities for Flood Damage Reduction	60240 <sup>1/</sup>
Water Management (Control and Quality) Activities - Analysis and Studies for Environmental Stewardship	60441
Water Management (Control and Quality) Activities for Environmental Stewardship	60440 <sup>1/</sup>
Water Management (Control and Quality) Activities - Analysis and Studies for Recreation	60541
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Recreation	60542
Water Management (Control and Quality) Activities - Operation of Water Control Data Systems for Navigation	60142
Water Management (Control and Quality) Activities - Analysis and Studies for Navigation	60141
Water Management (Control and Quality) Activities for Navigation	60140 <sup>1/</sup>
Water Management (Control and Quality) Activities for Hydropower	60340 <sup>1/</sup>
Water Management (Control and Quality) Activities - Analysis and Studies for Hydropower	60341

<sup>1/</sup> SUMMARY COST ACCOUNT/WORK CATEGORY - COSTS MAY NOT BE CHARGED DIRECTLY TO THESE ACCOUNTS.

\*Feature Cost Codes marked with an asterisk require added data in project work description, justification statement, or output measures. See Table C-2.5.

\*\*Although Feature Cost Codes marked with double asterisk require no description or funding argument, requested resources will be in consonance with funding level definition and prior year experience.

**TABLE C-2.3**  
**~~BY 1999~~ O&M WORK CATEGORY CODE**  
**MATRIXES AND DEFINITIONS**

Tables 2.3a and 2.3b are Operation and Maintenance Work Category Code Matrix sheets. Table 2.3c includes the definitions of the Operation WCCs. Table 2.3d includes the definitions of the Maintenance WCCs.

The major O&M functions are broken down into Work Category Codes, together with a description of work to be performed the pages following the spreadsheet. —JHB

<b>Table C-2.3a</b> <b>Operation Work Category Code Matrix (by Business Function)</b>						
<b>WCC</b>	<b>NAVIGATION 601XX</b>	<b>FLOOD DAMAGE REDUCTION 602XX</b>	<b>HYDROPOWER 603XX</b>	<b>ENVIRONMENTAL STEWARDSHIP 604XX</b>	<b>RECREATION 605XX</b>	<b>JOINT ACTIVITIES 606XX</b>
<b>60X10</b>	OPERATIONS	OPERATIONS	OPERATIONS	OPERATIONS	OPERATIONS	OPERATIONS
<b>60X20</b>	STUDIES & SURVEYS	STUDIES & SURVEYS	STUDIES & SURVEYS	STUDIES & SURVEYS	STUDIES & SURVEYS	STUDIES & SURVEYS
<b>60X30</b>	DAM SAFETY	DAM SAFETY	DAM SAFETY	DAM SAFETY	DAM SAFETY	DAM SAFETY
<b>60X40</b>	WATER MANAGEMENT	WATER MANAGEMENT	WATER MANAGEMENT	WATER MANAGEMENT	WATER MANAGEMENT	WATER MANAGEMENT
<b>60X50</b>	REAL ESTATE MANAGEMENT	REAL ESTATE MANAGEMENT	REAL ESTATE MANAGEMENT	REAL ESTATE MANAGEMENT	REAL ESTATE MANAGEMENT	REAL ESTATE MANAGEMENT
<b>60X60</b>	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE
<b>60X70</b>	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED
<b>60X80</b>	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED
<b>60X90</b>	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED

<b>Table C-2.3b</b> <b>Maintenance Work Category Code Matrix (by Business Function)</b>						
WCC	NAVIGATION 611XX	FLOOD DAMAGE REDUCTION 612XX	HYDROPOWER 613XX	ENVIRONMENTAL STEWARDSHIP 614XX	RECREATION 615XX	JOINT ACTIVITIES 616XX
<b>61X10</b>	MAINTENANCE EXCLUDE DREDGING	MAINTENANCE EXCLUDE DREDGING	MAINTENANCE EXCLUDE DREDGING	MAINTENANCE EXCLUDE DREDGING	MAINTENANCE EXCLUDE DREDGING	MAINTENANCE EXCLUDE DREDGING
<b>61X20</b>	DREDGING	DREDGING	DREDGING	DREDGING	DREDGING	DREDGING
<b>61X30</b>	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED
<b>61X40</b>	WATER MANAGEMENT EQUIPMENT	WATER MANAGEMENT EQUIPMENT	WATER MANAGEMENT EQUIPMENT	WATER MANAGEMENT EQUIPMENT	WATER MANAGEMENT EQUIPMENT	WATER MANAGEMENT EQUIPMENT
<b>61X50</b>	REAL ESTATE	REAL ESTATE	REAL ESTATE	REAL ESTATE	REAL ESTATE	REAL ESTATE
<b>61X60</b>	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE	ENVIRONMENTAL COMPLIANCE
<b>61X70</b>	REMAINING O&M MAJOR REHAB.	RESERVED	REMAINING O&M MAJOR REHAB.	RESERVED	RESERVED	RESERVED
<b>61X80</b>	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED
<b>61X90</b>	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED	RESERVED

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

**O&M Operations Accounts By Business Function:**

Navigation (**601--**)  
Flood Damage Reduction (**602--**)  
Hydropower (**603--**)  
Environmental Stewardship (**604--**)  
Recreation (**605--**)  
Joint Activities (**606--**)

A Breakdown of Work Category Codes (WCC's) and descriptions under these functions is on the following pages:

WORK CATEGORY CODE:      **60110** - Operations for Navigation ~~(includes elements for navigation activities of old Feature Cost Codes 60110, 60120, 60130, 60220, 60230, 60240, 60640, 60742 and 61400)~~

WORK CATEGORY DESCRIPTION: Operations of Locks, Dams, Reservoirs, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for navigation features.

Includes all costs for the operation; ~~and operational maintenance~~; necessary materials, supplies, equipment and transportation costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs:

of **lock gates and/or associated equipment**; maintaining lock records; removing debris, ice and snow, cleanup of lock facilities; routine adjusting of meters, relays, instruments, radios and regular equipment; lubrication of equipment;

Table C-2.3c  
Work Category Codes and Definitions

### O&M Operations Accounts

of **dam structures and appurtenant equipment** such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes all costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

to **perform reservoir inspections and patrols**, removal and control of trash and debris (major periodic or one-time removal of growth and debris from the reservoir should be recorded in Work Category Code 61110); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and ~~operational routine, recurring~~ maintenance of boundary monumentation at projects without natural resource activities; insect control and elimination of health and safety hazards;

of **project-owned permanent facilities** such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery are charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories. This activity includes costs of buildings, grounds and utilities related to the operation of the Los Angeles-Long Beach and San Francisco Bay hydraulic models located in South Pacific Division and it does not include costs associated with recreation facilities and areas which will be included in Work Category Code 60511;

of **all tools and equipment**, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project-owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other



Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

equipment. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles;

for **prevention of obstructive and injurious deposits at NAD projects** as authorized by the ~~a~~Act approved 29 June 1888, as amended, including all costs for surveillance at harbors, channels, waterfront construction sites, and at overboard ocean dumping sites, costs to administer outstanding enforcement actions on prior noted violations of Federal statutes, and any costs required for ground or aerial surveillance.

WORK CATEGORY CODE: **60121** - Studies and Surveys for the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Code 60711~~)

WORK CATEGORY DESCRIPTION: Studies and Surveys including project condition surveys, dredging studies, etc. for navigation features.

Includes all costs to perform surveys for the purpose of determining elevation, grade and sedimentation conditions in navigation projects, investigation of sunken vessels, and to prepare dredging studies. For program management purposes, all projects with funding requirements (dredging or otherwise) under the Baseline or Non-deferrable levels should have any needed surveys programmed under the project name. All other surveys should be programmed in aggregation under PWID 14600: Project Condition Surveys. Funding for PWID 14600: Project Condition Surveys, will be adjusted after overall dredging program levels are determined.

---

WORK CATEGORY CODE: **60122** - Studies and Surveys for Navigation - Major Rehabilitation Evaluation Reports (~~Includes elements for navigation activities of old Feature Cost Code 60770~~)

WORK CATEGORY DESCRIPTION: Major Rehabilitation Evaluation Reports for navigation features.

Includes all costs to initiate new, or continue ongoing, major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction, General (CG) funds are allocated to the project.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60123** - Studies and Surveys for Navigation - Environmental Studies and Monitoring for Dredging Purposes ~~(Includes old Feature Cost Code 60742)~~

WORK CATEGORY DESCRIPTION: Environmental Studies and Monitoring for Dredging Purposes.

Includes all costs for environmental studies and monitoring for dredging purposes including all costs of study and analysis activities associated with long range environmental activities related to waterways. These activities are needed to ensure that appropriate information and requirements are fulfilled so that E&D for dredging can be completed on a timely basis. Dredged Material Management Plans (DMMPs) are included in this Work Category. Environmental requirements to perform maintenance dredging of Federal channels (e.g. water quality certification, bio-assays, water quality testing, Environmental Impact Statements, and environmental assessments) should also be included in this Work Category.

WORK CATEGORY CODE: **60131** - Instrumentation, Data Collection and Analysis for Dam Safety related to the Navigation Function ~~(Includes elements for navigation activities of old Feature Cost Codes 60721 and 60722)~~

WORK CATEGORY DESCRIPTION: Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety related to navigation features.

Includes all costs for the ~~operationing, and operational maintenance,~~ of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE:

**60132** - Formal Periodic Inspections and Reports for Dam Safety related to the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Code 60723~~)

WORK CATEGORY DESCRIPTION: Formal Periodic Inspections and Reports for Dam Safety related to navigation features.

Includes all costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

- (a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.
- (b) Public Bridges.
- (c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.
- (d) Other projects where known conditions warrant inspections at a frequency more often than normal including revetments, dikes, groins, breakwaters, jetties, seawalls, piers and other similar structures provided in seas, lakes, rivers, canals, exposed tidal waters and harbors.

WORK CATEGORY CODE:

**60133** - Dam Safety Assurance Studies related to the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Code 60741~~)

WORK CATEGORY DESCRIPTION: Dam Safety Assurance Studies for Dam Safety related to navigation features.

Includes all costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60141** - Water Management (Control and Quality) Activities for Navigation - Analysis and Studies ~~(Includes elements for navigation activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for navigation features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Costs for data collection are included in Work Category Code 60142.

WORK CATEGORY CODE: **60142** - Water Management (Control and Quality) Activities for Navigation - Operation of Water Control Data Systems ~~(Includes elements for navigation activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for navigation features.

Includes all costs for the operation of equipment, personnel and space to collect the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems. Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies, and other associated costs required for operation of water management data systems. ~~Also includes all costs for operational maintenance of data collection equipment, funds transferred to other agencies and any similar items needed to accomplish this activity, excluding costs for purchase and maintenance of new water control data systems equipment are~~

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

included in Work Category Code 61140.

WORK CATEGORY CODE: **60150** - Real Estate Management for the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Code 61100~~)

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for navigation features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government, ~~and~~ ~~Real property accountability, including real property inventory updates and preparation of annual civil-owned property reports~~ (GSA 1166).

WORK CATEGORY CODE: **60160** - Environmental Compliance Management for the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Code 60800~~)

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for navigation features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **60170**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60180**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60190**

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60210** - Operations for Flood Damage Reduction (~~Includes elements for flood damage reduction activities of old Feature Cost Codes 60110, 60120, 60130, 60220, 60230, 60240, 60310, 60320, 60640 and 60742~~)

WORK CATEGORY DESCRIPTION: Operations of Dams, Reservoirs, Levees, Hurricane Barrier Gates, and Other Flood Damage Reduction Non-Dam Structures, Pumping Plants, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for flood damage reduction features.

Includes all costs for the operation, ~~and operational maintenance~~; necessary materials, supplies, equipment and transportation costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs:

of **dam structures and appurtenant equipment** such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes all costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

to **perform reservoir inspections and patrols**, removal and control of trash and debris (major periodic or one-time removal of growth and debris from the reservoir should be recorded under Work Category Code 61210); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and ~~operational routine, recurring~~ maintenance of boundary monumentation at projects without natural resource activities, insect control and elimination of health and safety hazards;

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

of **levees, hurricane barrier gates, and other gated non-dam flood damage reduction structures**; vegetation control on flood damage reduction structures; removal of snow and ice from structures;

of **pumping plants, pumps and associated equipment**; collecting and maintaining operational records; routine replacement, purification and testing of insulating, lubricating and hydraulic oils; lubricants and lubricating equipment; ~~operational~~ minor maintenance of electrical equipment, cleaning, testing, and adjustment of motor starters, relays, meters, and similar equipment; ~~operational~~ minor maintenance and repair of pumps, motors, engines, trash raking equipment, gate hoists, gates, fire fighting, and other equipment required for operation; ~~operational~~ minor maintenance of buildings, roads, and grounds; removal of debris, ice, and snow;

of **project-owned permanent facilities** such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery are charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories. This activity does not include costs associated with recreation facilities and areas which will be included in Work Category Code 60511;

of **all tools and equipment**, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project-owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other equipment. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles.

WORK CATEGORY CODE: **60221** - Studies and Surveys for the Flood Damage Reduction Function  
(Includes elements for flood damage reduction activities of old Feature  
Cost Code 60753)



Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY DESCRIPTION: Non-Navigation Project Condition Studies, including Dredging Studies, for flood damage reduction features.

Includes all costs to prepare reconnaissance reports or studies related to the maintenance and rehabilitation of Civil Works projects such as foundation reports, embankment criteria, O&M manuals, sediment surveys at flood damage reduction projects, surveillance of northern boundary waters, and hydraulic model analyses prior to the engineering and design phase.

WORK CATEGORY CODE: **60222** - Studies and Surveys for Flood Damage Reduction - Major Rehabilitation Evaluation Reports (~~Includes elements for flood damage reduction activities of old Feature Cost Code 60770~~)

WORK CATEGORY DESCRIPTION: Major Rehabilitation Evaluation Reports for flood damage reduction features.

Includes all costs to initiate new, or continue ongoing, major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction, General (CG) funds are allocated to the project.

WORK CATEGORY CODE: **60223** – Studies, Surveys and Inspections of Completed Works - Local Protection Projects (~~Includes old Feature Cost Code 61014~~)

WORK CATEGORY DESCRIPTION: Studies, Surveys and Inspections of Local Protection Projects for flood damage reduction features.

Includes all costs related to the inspection of Federally constructed, locally operated and maintained projects to ensure compliance with local cooperative agreements. This Work Category does not include costs for projects covered by PL 84-99. Includes all costs for technical review and approval of sponsor-proposed alterations, improvements, excavation or construction within the limits of the project right-of-way; advice given to sponsors related to the effects of such activities on the function/operation of the project and information on acceptable construction methods; all costs to update O&M Manuals; initial funding of reconnaissance or evaluation reports; and PED for major rehabilitation, dam safety assurance, deficiency correction and reconstruction as applicable until Construction, General (CG) funds are allocated.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60231** - Instrumentation, Data Collection and Analysis for Dam Safety related to the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Codes 60721 and 60722)~~

WORK CATEGORY DESCRIPTION: Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety related to flood damage reduction features.

~~Includes all costs for the operation, and operational maintenance, of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.~~

WORK CATEGORY CODE: **60232** - Formal Periodic Inspections and Reports for Dam Safety related to the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Code 60723)~~

WORK CATEGORY DESCRIPTION: Formal Periodic Inspections and Reports for Dam Safety related to flood damage reduction features.

Includes all costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

(a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.

(b) Public Bridges.

(c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

(d) Other projects where known conditions warrant inspections at a frequency more often than normal.

WORK CATEGORY CODE: **60233** - Dam Safety Assurance Studies related to the Flood Damage Reduction Function (~~Includes elements for flood damage reduction activities of old Feature Cost Code 60741~~)

WORK CATEGORY DESCRIPTION: Dam Safety Assurance Studies for Dam Safety related to flood damage reduction features.

Includes all costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60241** - Water Management (Control and Quality) Activities for Flood Damage Reduction - Analysis and Studies (~~Includes elements for flood damage reduction activities of old Feature Cost Codes 60920 and 60930~~)

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for flood damage reduction features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Costs for data collection are included in Work Category Code 60242.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60242** - Water Management (Control and Quality) Activities for Flood Damage Reduction - Operation of Water Control Data Systems ~~(includes elements for flood damage reduction activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for flood damage reduction features.

Includes all costs for the operation of equipment, personnel and space to collect the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems. Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies, and other associated costs required for operation of water management data systems. ~~Also includes all costs for operational maintenance of data collection equipment, funds transferred to other agencies and any similar items needed to accomplish this activity, excluding Costs for purchase and maintenance of new water control data systems equipment are~~ included in Work Category Code 61240.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60250** - Real Estate Management for the Flood Damage Reduction Function (~~Includes elements for flood damage reduction activities of old Feature Cost Code 61100~~)

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for flood damage reduction features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of, and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government. Includes reconciliation of financial records with flood damage reduction land and mineral lease receipts, and ~~Real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).~~

WORK CATEGORY CODE: **60260** - Environmental Compliance Management for the Flood Damage Reduction Function (~~Includes elements for flood damage reduction activities of old Feature Cost Code 60800~~)

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for flood damage reduction features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088. This Work Category also includes all costs for the management and curation of Orphan Collections and archeological materials collected from early local protection projects and subsequently turned over to local sponsors for operation and maintenance. All other costs for management and curation of archeological resources are included in Work Category Code 60412.

WORK CATEGORY CODE: **60270**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60280**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60290**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60310 (60311-60314)** - Hydropower Operations (~~Includes elements for hydropower activities of old Feature Cost Codes 60120, 60130, 60220, 60230, 60310, 60410, 60420, 60430, 60440, 60640 and 60742).~~ Costs for this function will be sub-divided as follows:

**60311** - Hydropower Operations - Supervision and Engineering, FERC #535. Costs for labor, materials and other expenses incurred in the general supervision of the operation of hydraulic generating stations. Direct supervision of specific activities will be charged to the appropriate accounts;

**60312** - Hydropower Operations - Hydraulic Expenses, FERC #537. Costs for labor, materials and other expenses incurred in operating power intake works whether or not the powerhouse is an integral part of the intake dam;

**60313** - Hydropower Operations - Electric Expenses, FERC #538. Costs for labor, materials and other expenses incurred in operating turbines, generators, auxiliary apparatus, switchgear and other electric equipment to the point where electricity leaves for transmission by the marketing agency or other project. Keeping plant logs and records, and preparing reports of operation are included herein;

**60314** - Hydropower Operations - Miscellaneous Hydraulic Power Generation Expenses, FERC #539. Costs for labor, materials and other expenses not specifically provided for in other power plant operation accounts. Includes costs for custodial and other administrative services.

WORK CATEGORY DESCRIPTION: ~~Operations of Power Plants, Dams, Reservoirs, Levees and Other Non-Dam Structures, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for hydropower features.~~

Table C-2.3c  
Work Category Codes and Definitions

### O&M Operations Accounts

Includes specific costs for the general supervision and engineering associated with the operation; ~~and operational maintenance~~; routine materials, supplies, equipment and transportation costs; associated hired labor and contract support; and other costs; ~~for hydroelectric power plants. Costs not specific to hydropower will be included in Work Category Code 60610.~~

of **power plants** including hydraulic generating stations, and their associated power intake structures, turbines, generators, auxiliary apparatus, switchgear, and other electrical or electronic equipment to the point where electricity leaves for transmission by the marketing agency or project. Includes miscellaneous costs such as custodial, administrative services and training power plant trainees including labor;. Costs not specific to hydropower will be included in Work Category Code 60610.

~~of dam structures and appurtenant equipment~~ such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes all costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

~~to perform reservoir inspections and patrols~~, removal and control of trash and debris (major periodic or one-time removal of growth and debris from the reservoir should be recorded under Work Category Code 61N10); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and operational maintenance of boundary monumentation at projects without natural resource activities, insect control and elimination of health and safety hazards;

~~of levees and other non-dam structures~~; vegetation control on structures; removal of snow and ice from structures;



Table C-2.3c  
Work Category Codes and Definitions

### O&M Operations Accounts

~~of project owned permanent service facilities~~ such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery are charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories. This activity does not include costs associated with recreation facilities and areas which will be included in Work Category Code 60511;

~~of all tools and equipment~~, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other equipment. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles;

WORK CATEGORY CODE: **60320 (60321-60324)** - Studies and Surveys for the Hydropower Function ~~(Includes elements for hydropower activities of old Feature Cost Code 60753).~~ Costs for this function will be sub-divided as follows:

**60321** - Studies and Surveys - Supervision and Engineering, FERC #535. Costs for labor, materials and other expenses incurred in the general supervision of the operation of hydraulic generating stations. Direct supervision of specific activities will be charged to the appropriate accounts;

**60322** - Studies and Surveys - Hydraulic Expenses, FERC #537. Costs for labor, materials and other expenses incurred in operating power intake works whether or not the powerhouse is an integral part of the intake dam;

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

**60323** - Studies and Surveys - Electric Expenses, FERC #538. Costs for labor, materials and other expenses incurred in operating turbines, generators, auxiliary apparatus, switchgear and other electric equipment to the point where electricity leaves for transmission by the marketing agency or other project;

**60324** - Studies and Surveys - Miscellaneous Hydraulic Power Generation Expenses, FERC #539. Costs for labor, materials and other expenses not specifically provided for in other power plant operation accounts.

WORK CATEGORY DESCRIPTION: Studies and Surveys for hydropower features.

Includes all costs to prepare reconnaissance reports or studies related to the maintenance and rehabilitation of hydropower projects such as foundation reports, embankment criteria, O&M manuals, sediment surveys and hydraulic model analyses prior to the engineering and design phase.

WORK CATEGORY CODE: **60325** - Studies and Surveys for Hydropower - Major Rehabilitation Evaluation Reports ~~(Includes elements for hydropower activities of old Feature Cost Code 60770)~~

WORK CATEGORY DESCRIPTION: Major Rehabilitation Evaluation Reports for hydropower features.

Includes all costs for specific hydropower purposes to initiate new, or continue ongoing, major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction, General (CG) funds are allocated to the project.

WORK CATEGORY CODE: **60331** - Instrumentation, Data Collection and Analysis for Dam Safety related to the Hydropower Function, FERC #537 ~~(Includes elements for hydropower activities of old Feature Cost Codes 60721 and 60722)~~

WORK CATEGORY DESCRIPTION: Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety related to hydropower features.

Includes all specific costs for the ~~operation, and operational maintenance,~~ of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **60332** - Formal Periodic Inspections and Reports for Dam Safety related to Hydropower Activities, FERC #537 (~~Includes elements for hydropower activities of old Feature Cost Code 60723~~)

WORK CATEGORY DESCRIPTION: Formal Periodic Inspections and Reports for Dam Safety related to hydropower features.

Includes all specific costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

(a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.

(b) Public Bridges.

(c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.

(d) Other projects where known conditions warrant inspections at a frequency more often than normal.

WORK CATEGORY CODE: **60333** - Dam Safety Assurance Studies related to the Hydropower Function, FERC #537 (~~Includes elements for hydropower activities of old Feature Cost Code 60741~~)

WORK CATEGORY DESCRIPTION: Dam Safety Assurance Studies for Dam Safety activities related to hydropower features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all specific costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60341** - Water Management (Control and Quality) Activities for Hydropower - Analysis and Studies, FERC #537 ~~(Includes elements for hydropower activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for hydropower features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Costs for data collection are included in Work Category Code 60342.

WORK CATEGORY CODE: **60342** - Water Management (Control and Quality) Activities for Hydropower - Operation of Water Control Data Systems, FERC #537 ~~(Includes elements for hydropower activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for hydropower features.

Includes all costs for the operation of equipment, personnel and space to collect the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems. Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. ~~Also includes all costs for operational maintenance of data collection equipment, funds transferred to other agencies and any similar items needed to accomplish this activity, excluding Costs for purchase and maintenance of new water control data systems equipment are~~ included in Work Category Code 61340.

WORK CATEGORY CODE: **60350** - Real Estate Management for the Hydropower Function, FERC #537 ~~(Includes elements for hydropower activities of old Feature Cost Code 61400)~~

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for hydropower features.

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government, and Real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60360** - Environmental Compliance Management for the Hydropower Function, FERC #539 ~~(Includes elements for hydropower activities of old Feature Cost Code 60800)~~

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for hydropower features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **60370**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60380**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60390**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60411** - Management of Natural Resources (~~Includes old Feature Cost Code 60510~~)

WORK CATEGORY DESCRIPTION: Management of Natural Resources and Operational Management Plans.

Includes all costs for the management and operations, ~~including operational maintenance~~:

of **natural resources** including the conservation and protection of soil, water, wetland, forest, vegetation, Federally listed endangered and threatened species, waterfowl, fish and wildlife, grasslands and range, and other resources essential to the total management of specific projects; ~~and operational maintenance~~; salaries, equipment, supplies, managing permits issued under authority of Title 36 Code of Federal Regulations, compliance with the Endangered Species Act; managing areas under license or outlease, spawning beds, fish shelters, fish and waterfowl impoundments; conducting reforestation activities, timber salvage, timber trespass surveillance, timber cruising, stand improvement, and haul road maintenance; pest and predator control; conduct vegetation plantings, prescribed burning, fertilization, noxious weed control, maintain riparian vegetation, establishing wildlife food plots, manipulating vegetation; conducting wildlife habitat preservation management or improvement activities; forestry and range management; establishing firelanes and conducting fire prevention; managing trails and off-road vehicles; erosion control; conducting citation authority programs outside developed recreation areas; conducting interpretive programs; and boundary surveillance and ~~operational routine, recurring~~ maintenance of boundary monumentation. This Work Category excludes costs associated with fish hatcheries and fish passage. Also, natural resources activities conducted for the enhancement of recreation areas will be charged to Work Category Code 60511;

of **Operational Management Plans**, including all costs for salaries, supplies and materials, and equipment related to the preparation and updating of Operational Management Plans and supplements. Charges may include field units that perform data collection and analysis.

WORK CATEGORY CODE: **60412** - Management and Curation of Archeological and Cultural Resources (~~Includes old Feature Cost Code 60540~~)

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY DESCRIPTION: Management and Curation of Archeological and Cultural Resources.

Includes all costs for the management and operations, ~~including operational maintenance~~, of archeological and cultural resources including identification, surveillance, studies, literature searches, reconnaissance surveys, inventory, subsurface testing, development and update of management plans for historical, archaeological and cultural resources, outreach, educational and Native people programs, operations activities associated with identified historical, archaeological and cultural resources, and enforcement of Title 36 Code of Federal Regulations, the National Historic Preservation Act of 1966, the Archeological Resources Protection Act of 1979 and other applicable laws and regulations. Costs for Orphan Collections are included in Work Category Code 60260.

WORK CATEGORY CODE: **60413** - Management of Wildlife Mitigation Features ~~(Includes old Feature Cost Code 60550)~~

WORK CATEGORY DESCRIPTION: Management of Wildlife Mitigation Features.

Includes all costs for the management and operations, ~~including operational maintenance~~, of wildlife mitigation activities including costs to comply with Federal laws and mitigation requirements to offset losses caused by existing and new project activities. This Work Category does not include acquisition costs.



Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60414** - Fisheries Management - Operation of Fish Hatcheries (~~Includes old Feature Cost Code 60520~~)

WORK CATEGORY DESCRIPTION: Fisheries Management — Operation of Fish Hatcheries.

Includes all costs for salaries, equipment, supplies and all costs associated with the operation, ~~and operational maintenance~~, of fish hatcheries, egg collecting stations and related facilities for provision of fish propagation. It excludes fisheries development activities included in Work Category Code 60411.

WORK CATEGORY CODE: **60415** - Fisheries Management - Fish Hauling Activities and Fish Passage Structures (~~Includes old Feature Cost Code 60530~~)

WORK CATEGORY DESCRIPTION: Fisheries Management - Fish Hauling Activities and Fish Passage Structures.

Includes all costs associated with operation ~~and operational maintenance~~ of facilities and equipment for collecting, trapping, transportation and passage of fish at dams and navigation facilities. Facilities include ladders, nets, elevators and locks. It excludes fisheries development activities included in Work Category Code 60411.

WORK CATEGORY CODE: **60416** - Comprehensive Master Plans (~~Includes old Feature Cost Code 60640~~)

WORK CATEGORY DESCRIPTION: Preparation and Updating of Comprehensive Master Plans and Master Plan Supplementals.

Includes all costs to initiate new, or continue ongoing, comprehensive Master Plans, including all costs for salaries, supplies and materials, and equipment related to the preparation and updating of Master Plans and Master Plan Supplements. Charges may include field units that perform data collection and analysis.

WORK CATEGORY CODE: **60420** — Studies and Surveys for the Environmental Stewardship Function (~~Includes old Feature Cost Code 60754 and elements of old Feature Cost Codes 60510, 60540~~)

WORK CATEGORY DESCRIPTION: Natural Resources Studies and Surveys for environmental stewardship features, including Fisheries and Wildlife Development Activities.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all costs of fish and wildlife studies, including fish hauling and passage analyses to meet mitigation requirements to support long-range development and modification of existing structures, applicable to a specific project and pro rata share of basin-wide fish and wildlife studies; inventorying the natural resources base; conducting surveys of fish and wildlife; performing population dynamics and other studies; and of archeological and cultural resources including identification, surveillance, studies, literature searches, reconnaissance surveys, indexing, inventory, testing, development and update of management plans for historical, archaeological and cultural resources, including costs of operations activities associated with identified historical, archaeological and cultural resources.

WORK CATEGORY CODE: **60430**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60441** - Water Management (Control and Quality) Activities for Environmental Stewardship - Analysis and Studies (~~includes elements for environmental stewardship activities of old Feature Cost Codes 60920 and 60930~~)

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for environmental stewardship features.

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Costs for data collection are included in Work Category Code 60442.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60442** - Water Management (Control and Quality) Activities for Environmental Stewardship - Operation of Water Control Data Systems ~~(Includes elements for environmental stewardship activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for environmental stewardship features.

Includes all costs for the operation of equipment, personnel and space to collect the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems. Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. ~~Also includes all costs for operational maintenance of data collection equipment, funds transferred to other agencies and any similar items needed to accomplish this activity, excluding costs for purchase and maintenance of new water control data systems equipment are~~ included in Work Category Code 61440.

WORK CATEGORY CODE: **60450** - Real Estate Management for the Environmental Stewardship Function ~~(Includes elements for environmental stewardship activities of old Feature Cost Code 61100)~~

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for environmental stewardship features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government, and ~~Real property~~ Real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60460** - Environmental Compliance Management for the Environmental Stewardship Function (~~Includes elements for environmental stewardship activities of old Feature Cost Code 60800~~)

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for environmental stewardship features.

Includes all operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **60470**

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60480**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60490**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60511** - Operations for the Recreation Function ~~(Includes old Feature Cost Codes 60610 and 60620, and elements for recreation activities of old Feature Cost Codes 60110, 60120, 60130, 60220, 60230 and 60640)~~

WORK CATEGORY DESCRIPTION: Operations and Management of Recreation Areas and Facilities, Visitor Centers, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc. for recreation features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all costs for the management and operation; ~~and operational maintenance~~; necessary materials, supplies, equipment, transportation and rental costs associated with operations; associated hired labor and contract support; routine materials and supplies; and other costs:

of **recreation areas and facilities** including all costs for salaries, per diem, travel, signs and uniforms, collecting and administering users fees, brochures, maps, participation in public and special events and exhibitions, costs of trash removal, cleanup, mowing, and gate or park attendants. Also includes ~~operational maintenance operations~~ costs for buildings, grounds, landscaping, removal of hazardous trees, control of vegetation, roads, bridges, parking areas, grills, tables, trails, playgrounds and permanent operating equipment utilized for recreation purposes;

of **visitor centers** including all costs associated with visitor center operations, such as all personnel costs, custodial duties, supporting costs of cooperating associations, ~~operational maintenance~~, snow, ice and debris removal, lawn and shrubbery maintenance, landscaping, utilities, exhibits, grounds, heating and cooling systems, audio visual programs, building material, and equipment costs;

to **perform reservoir inspections and patrols** for recreation purposes;

of **project-owned permanent facilities** for recreation purposes;

of **all tools and permanent operating equipment** including direct costs of automotive and other equipment assigned to the recreation function. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles.

WORK CATEGORY CODE: **60512** - Operations and Management for the Recreation Function using Special Recreation Users Fee (SRUF) Funds ~~(Includes old Feature Cost Code 60630)~~

Costs previously included here should be included in WCC 60511.

~~WORK CATEGORY DESCRIPTION: Operations for recreation features — Management of Recreation Areas and Facilities using Special Recreation Users Fee (SRUF) Funds.~~

~~Includes all costs for management and operation of recreation areas and facilities which utilize Special Recreation Users Fee (SRUF) funds to perform activities as described in Work Category Code 60511. SRUF funds can be used to supplement the costs to operate, maintain, and when feasible improve~~

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

~~recreation facilities. SRUF funds are first to be used to finance normal O&M activities so as to ensure continued operation of these facilities.~~

WORK CATEGORY CODE: **60513** - Operations for the Recreation Function - Law Enforcement Agreements ~~(Includes old Feature Cost Code 61600)~~

WORK CATEGORY DESCRIPTION: Operations for recreation features - Costs and Supervision of Law Enforcement Agreements.

Includes all costs for cooperative agreements for law enforcement with states and their political subdivisions under PL 94-587, and all costs for technical and administrative charges, including project and district costs for administration of law enforcement agreements and activities.

WORK CATEGORY CODE: **60520** - Studies and Surveys for the Recreation Function ~~(Includes elements for recreation activities of old Feature Cost Code 60753)~~

WORK CATEGORY DESCRIPTION: Studies and Surveys for recreation features.

Includes all costs to prepare visitor surveys, reports or studies related to the operation, maintenance and rehabilitation of recreation facilities.

WORK CATEGORY CODE: **60530**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60541** - Water Management (Control and Quality) Activities for Recreation - Analysis and Studies ~~(Includes elements for recreation activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions for recreation features.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; all costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated costs required to make sound water control management decisions; all costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and all costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes all costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Costs for data collection are included in Work Category Code 60542.

WORK CATEGORY CODE: **60542** - Water Management (Control and Quality) Activities for Recreation - Operation of Water Control Data Systems (~~includes elements for recreation activities of old Feature Cost Codes 60920 and 60930~~)

WORK CATEGORY DESCRIPTION: Water Management (Control and Quality) Activities - Operation of Water Control Data Systems including Data Collection for recreation features.

Includes all costs for the operation of equipment, personnel and space to collect the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems. Includes all costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. ~~Also includes all costs for operational maintenance of data collection equipment, funds transferred to other agencies and any similar items needed to accomplish this activity, excluding~~ Costs for purchase and maintenance of new water control data systems equipment are included in Work Category Code 61540.

WORK CATEGORY CODE: **60550** - Real Estate Management for the Recreation Function (~~includes elements for recreation activities of old Feature Cost Code 61100~~)

WORK CATEGORY DESCRIPTION: Real Estate Management including Compliance, and Utilization Inspections for recreation features.



Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government and ~~Real~~ property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60560** - Environmental Compliance Management for the Recreation Function ~~(Includes elements for recreation activities of old Feature Cost Code 60800)~~

WORK CATEGORY DESCRIPTION: Environmental Compliance Management for recreation features.

Includes all operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60570**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60580**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60590**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60610** - Joint Activities for Operations, FERC #535, #537, #538 and #539 (~~Includes elements for joint use activities of old Feature Cost Codes 60120, 60130, 60220, 60230, 60310, 60320, 60450, 60640 and 60742~~)

WORK CATEGORY DESCRIPTION: Joint costs for Operations activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation. These activities may include

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

the operation of Dams, Reservoirs, Levees, Other Non-Dam Multi-purpose Structures, Pumping Plants, Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Permanent Operating Equipment, etc.

Includes all joint costs for the operation, and ~~operational maintenance~~, routine materials, supplies, equipment and transportation costs; hired labor and contract support associated with operations; and other costs:

of **dam structures and appurtenant equipment** such as spillway gates, intake and outlet works, and sluiceways for reservoir regulation; removing and disposing of ice, snow, trash, and debris on or in the vicinity of the dam or dam structures; cleanup of dam structures and facilities; routine testing and adjustment of gauges, meters, instruments, and relays in dam structures; disposal and control of weeds, brush, trees, and aquatic growth in the vicinity of dam structures; and grass cutting on earth-fill dams. Includes costs for dam safety/failure training of project personnel, preparation of flood emergency plans, dam contingency plans, dam surveillance plans, and provision for technical assistance to local interests concerning dam failure. When this account includes municipal or industrial water delivery activities, a separate sub-element should be established in CEFMS to record appropriate costs for each such facility for cost allocation purposes;

to **perform reservoir inspections and patrols**, removal and control of trash and debris (excluding major periodic or one-time removal of growth and debris from the reservoir which should be included in maintenance accounts); minor bank erosion control; minor cleaning of reservoir area for weeds, brush, trees, and aquatic growth; boundary surveillance and ~~operational routine, recurring~~ maintenance of boundary monumentation at projects without natural resource activities, insect control and elimination of health and safety hazards;

of **levees and other non-dam multi-purpose structures**; vegetation control, removal of snow and ice from multi-purpose structures;

of **pumping plants, pumps and associated equipment**; collecting and maintaining operational records; routine replacement, purification and testing of insulating, lubricating and hydraulic oils; lubricants and lubricating equipment; ~~operational minor~~ maintenance of electrical equipment, cleaning, testing, and adjustment of motor starters, relays, meters, and similar equipment; ~~operational minor~~ maintenance of pumps, motors, engines, trash raking equipment, gate hoists, gates, fire fighting, and other equipment required for operation; ~~operational minor~~ maintenance of buildings, roads, and grounds; removal of debris, ice, and snow;

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

of **project-owned permanent facilities** such as administration and shop buildings, storage and garage buildings and areas, community buildings, local streets and sidewalks, landscaping, utility facilities such as electric, gas, water, and sewage, all security and protective measures, and permanent roads, including the road across the top of the dam, and parking areas near the dam, railroads, and bridges required for access and other purposes in connection with the operation of a project. It also includes bridges provided as a project feature for the passage of highway and railway traffic over improved channels. Direct costs included are snow and ice removal from project roads, parking areas and walkways; sanding and salting project roads, parking areas and walkways; minor patching, signs, ditch cleaning, culvert cleaning and similar duties; bridge operation; cleanup of project roads, railroads, and bridges. Where space in other basic structures, such as a dam or powerhouse, is used in lieu of any above mentioned facilities, such allocated space is not separated from the basic structure. Buildings which house operating machinery and serve other purposes as well are included in this activity, but the costs to operate the machinery is charged to the appropriate Work Categories. Buildings which house specific operating machinery, spare parts, equipment, etc., will be charged to the appropriate Work Categories;

of **all tools and equipment**, including laboratory, shop, warehousing, communications, surveys, and transportation equipment, office furniture and equipment. Project owned sedimentation and degradation measuring facilities, rainfall and stream-gauging devices, fixed sand bypassing systems, and like equipment are also included. Includes direct costs of automotive and other equipment not assigned to specific features. Vehicle accounts will be maintained by group classifications as provided for Revolving Fund vehicles. Operating costs of permanent equipment assigned to specific functions will be charged to those functions.

WORK CATEGORY CODE: **60621** - Joint Activities for Studies and Surveys, FERC #535, #537, #538 and #539 (~~Includes elements for joint activities of old Feature Cost Code 60711~~)

WORK CATEGORY DESCRIPTION: Joint costs for Studies and Surveys including project condition surveys, dredging studies, etc. NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs to perform studies or surveys for multi-purpose projects including sedimentation conditions and dredging studies.

WORK CATEGORY CODE: **60622** - Joint Activities for Studies and Surveys - Major Rehabilitation Evaluation Reports, FERC #537 (~~Includes elements for joint activities of old Feature Cost Code 60770~~)

WORK CATEGORY DESCRIPTION: Joint costs for Studies and Surveys - Major Rehabilitation Evaluation

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Reports NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for major rehabilitation evaluation reports. Operation and Maintenance (O&M) funds are to be used only until Construction, General (CG) funds are allocated to the project.

WORK CATEGORY CODE: **60631** - Joint Activities for Instrumentation, Data Collection and Analysis for Dam Safety, FERC #537 ~~(Includes elements for joint activities of old Feature Cost Codes 60721 and 60722)~~

WORK CATEGORY DESCRIPTION: Joint costs of Instrumentation for Engineering Analysis and Continuing Evaluation Data Gathering Inspections, and Data Analysis for Dam Safety NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for the operating ~~on, and operational maintenance~~, of instruments in existing dam structures for safety evaluation and all costs of obtaining, analyzing and reporting instrumentation data for purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **60632** - Joint Activities for Formal Periodic Inspections and Reports for Dam Safety, FERC #537 ~~(Includes elements for joint activities of old Feature Cost Code 60723)~~

WORK CATEGORY DESCRIPTION: Joint costs for Formal Periodic Inspections and Reports for Dam Safety NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all joint costs related to the scheduled periodic inspections and reporting of projects and bridges needed to meet inspection frequency requirements of ER 1110-2-100 as follows:

(a) Dams, locks and dams, initial and second inspections if funded under O&M General, and high hazard structures.

(b) Public Bridges.

(c) Structures whose failure would be a major loss to the national infrastructure or cause severe economic distress.

(d) Other projects where known conditions warrant inspections at a frequency more often than normal.

WORK CATEGORY CODE: **60633** - Joint Activities for Dam Safety Assurance Studies, FERC #537  
(Includes elements for joint activities of old Feature Cost Code 60741)

WORK CATEGORY DESCRIPTION: Joint costs for Dam Safety Assurance Studies NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs of reconnaissance studies and special engineering investigations for known or suspected dam safety deficiencies, e.g. seismic evaluations, seepage studies, erosion studies, etc.

WORK CATEGORY CODE: **60641** - Joint Activities for Water Management (Control and Quality) - Analysis and Studies, FERC #537 (Includes elements for joint use activities of old Feature Cost Codes 60920 and 60930)

WORK CATEGORY DESCRIPTION: Joint costs for Water Management (Control and Quality) Activities - Analysis, Studies and Regulation Instructions NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for personnel and space to manage the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current water control/quality plan; costs to prepare routine regulation instructions and runoff forecasts, coordinate with other agencies and entities, prepare water control manuals, disseminate water control information, training, travel and other associated

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

costs required to make sound water control management decisions; costs for reservoir and river analyses to improve the quality of water within and downstream from the reservoirs; and costs related to studies of the means to mitigate water quality problems and studies to determine present and future water quality needs. Also includes costs for water management studies to improve efficiency or mitigate constraints on approved plans of regulation, annual updating of notification lists, and funds transferred to other agencies and any similar items needed to accomplish this activity. This includes development of the water quality component of water control manuals and daily decisions on multi-level releases and pro-rata share of office and computer facilities and other related costs associated with water management. Joint costs for data collection are included in Work Category Code 60642.

WORK CATEGORY CODE: **60642** - Joint Activities for Water Management (Control and Quality) - Operation of Water Control Data Systems, FERC #537 ~~(Includes elements for joint use activities of old Feature Cost Codes 60920 and 60930)~~

WORK CATEGORY DESCRIPTION: Joint costs for Water Management (Control and Quality) Activities - Operation of Water Control Data Systems NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for the operation of equipment, personnel and space to collect the hydrologic, hydraulic and meteorological data required for water control and quality activities in accordance with the current plan, data collection, and pro-rata share of office and computer facilities and other related costs associated with operations of water management data systems. Includes costs to coordinate with other agencies and entities, training, travel, funds transferred to other agencies and other associated costs required for operation of water management data systems. ~~Also includes all costs for operational maintenance of data collection equipment, funds transferred to other agencies and any similar items needed to accomplish this activity, excluding Costs for purchase and maintenance of new water control data systems equipment~~ are included in Work Category Code 61640.

WORK CATEGORY CODE: **60650** - Joint Activities for Real Estate Management, FERC #539 ~~(Includes elements for joint use activities of old Feature Cost Code 61100)~~

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate Management including Compliance, and Utilization Inspections NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

Includes all joint costs, including contractual services, incident to granting to others the use of and performing inspections of property for purposes such as commercial concessions, industrial uses, public park and recreation, quasi-public and group camp use, fish and wildlife habitat management, selected agricultural and grazing uses and reconveyance clauses (restrictions) in deeds. Also includes granting use of and performing inspections of property granted and reserved to others for purposes such as road, street, waterline, powerline, and communication rights-of-way, as well as requests to drill for oil or gas on Government owned property where no oil or gas lease is required, and other uses covered by easements, licenses, and permits. Includes report preparation, determination of compliance after vacation of property subsequent to expiration or revocation of grant, and corrective measures where non-compliance is noted. Also includes appraisals, surveys, mapping, negotiations, preparation and execution of outgrants, renewal, extension, cancellation/termination documents, responses to request for use of real or related personal property, Executive Order surveys and public land withdrawals (applies to the 11 western states). Includes costs of utilization inspections of real property under the control of or subject to a service agreement with the Corps or the Government. Includes reconciliation of financial records with flood damage reduction land and mineral lease receipts, and ~~Real~~ real property accountability, including real property inventory updates and preparation of annual civil-owned property reports (GSA 1166).

WORK CATEGORY CODE: **60660** - Joint Activities for Environmental Compliance Management, FERC #539 (~~Includes elements for joint use activities of old Feature Cost Code 60800~~)

WORK CATEGORY DESCRIPTION: Joint costs for Environmental Compliance Management activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint operational costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental assessment manuals. Includes all costs associated with management and oversight of environmental compliance for operations activities. Costs include salaries, training, materials, supplies, regulatory fees, drinking water and waste analysis, inspection of waste collection and disposal facilities, and internal and external environmental compliance assessments. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.



Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60670**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60680**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60690**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **60711** - National Emergency Preparedness Program (NEPP) - Continuity of Operations

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Continuity of Operations activities.

Includes all costs required to develop, maintain and exercise Continuity of Operations Plans (COOP). Includes personnel and contracting costs for development of plans and Standard Operating Procedures (SOPs), training, participation in exercises and program management associated with USACE relocation and reconstitution missions as a result of either a natural or manmade (caused) disaster or emergency.

WORK CATEGORY CODE: **60712** - National Emergency Preparedness Program (NEPP) - National Preparedness Planning

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - National Preparedness Planning activities.

Includes all costs associated with, or in support of, deliberate planning for assigned catastrophic disaster response plans which ensure that Corps MSCs and districts can support the Nation during national emergency events. Includes personnel and contracting costs for deliberate planning, development of Standard Operating Procedures (SOPs), training, exercises, program management and coordination with related Federal, State, and local entities. Also includes costs associated with preparedness planning for Port Readiness and Military Assistance to Civil Disturbances.

Table C-2.3c  
Work Category Codes and Definitions

**O&M Operations Accounts**

WORK CATEGORY CODE: **60713** - National Emergency Preparedness Program (NEPP) - Support of Emergency Operations Centers (EOCs)

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Support of Emergency Operations Centers (EOCs)

WORK CATEGORY CODE: **60714** - National Emergency Preparedness Program (NEPP) - Emergency Water Program

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Emergency Water Program.

Includes all personnel and contracting costs for those activities required to execute E.O. 12656 related to the Emergency Water Program. (For HQUSACE use only.)

WORK CATEGORY CODE: **60715** - National Emergency Preparedness Program (NEPP) - Continuity of Government

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Continuity of Government.

Includes all personnel and contracting costs for those activities associated with Continuity of Government, including plans to support the Federal Emergency Management Agency (FEMA) and other Federal, State and local agencies in their efforts to reestablish civil authority lost as a result of natural or manmade (caused) disaster or an attack on the United States. (For HQUSACE use only as directed.)

WORK CATEGORY CODE: **60716** - National Emergency Preparedness Program (NEPP) - Training and Exercises

WORK CATEGORY DESCRIPTION: National Emergency Preparedness Program (NEPP) - Training and Exercises.

Includes all costs for the development of and the participation in catastrophic disaster training and exercises in the inter- and intra-agency arena.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

**O&M Maintenance Accounts By Business Function**

Navigation (611--)

Flood Damage Reduction (612--)

Hydropower (613--)

Environmental Stewardship (614--)

Recreation (615--)

Joint Activities (616--)

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61110** - Maintenance for the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Codes 62111, 62115, 62120, 62210, 62240, 62610, 63020, 63210, 63240, 63321 and 63322~~)

WORK CATEGORY DESCRIPTION: Maintenance of Locks, Dams, Reservoirs, Dikes, Revetments, Breakwaters, Jetties, Seawalls, Piers, Levees and Similar Structures, Service Facilities, Permanent Operating Equipment, etc. excluding dredging activities for navigation features.

Includes all direct costs for the maintenance and repair, ~~excluding operational maintenance~~, replacement, additions and efficiency improvements to, or retirement of; related costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment for non-Water Management activities:

of **lock and salt water control structures and facilities** for passage of waterborne traffic, including gates, valve operating machinery, lock walls, and guide and guard-walls including dolphins within the lock approaches for tie up, guard, or guide purposes;

of facilities and equipment for **dams, spillways, outlet works and auxiliary dams**;

of **reservoirs and facilities** including floating trash booms, trash racks, erosion control, drainage, major periodic or one time removal of debris or aquatic growth to ensure proper functioning of the reservoir (minor and routine removal of growth and debris in the vicinity of dam structures and from reservoirs should be charged to Work Category Code 60110); rim grouting or mine sealing, etc., to prevent leakage;

of **revetments, dikes, groins, breakwaters, jetties, seawalls, piers, levees and similar structures** provided in seas, lakes, rivers, canals, exposed tidal waters, and harbors;

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

of **non-dredging navigation channel maintenance** including snagging, clearing, aquatic plant removal, removal of sunken vessels, drift removal, rock and other debris removal;

of **buildings, grounds, utilities, and roads, railroads and bridges**, such as administration and shop buildings, storage and garage buildings and areas, other non-leased or rented project buildings, local streets and sidewalks, project access roads, including the road across dams, parking areas, bridges, railroads, and walkways. Also includes direct costs for project utilities including electrical, gas, water, and sewer systems;

of **permanent operating equipment**;

of buildings, grounds and utilities that are part of the **hydraulic models in South Pacific Division**;

and for **instrumentation on lock facilities and dam structures** including all costs for the installation and maintenance of instruments in existing structures for safety evaluation purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **61121** - Dredging Activities for the Navigation Function (~~Includes old Feature Cost Code 63311 and elements for navigation activities of old Feature Cost Codes 63333, 63334 and 63335~~)

WORK CATEGORY DESCRIPTION: Dredging of Channels and Canals for navigation activities including all disposal activities. Disposal activities include, but are not limited to, confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all costs for maintenance dredging and disposal activities of navigation channels and canals, except project condition sediment survey costs which are included in Work Category Code 60121. Includes costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. Costs for long-range environmental requirements are included in Work Category Code 60123. This Work Category also includes all costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; creation or restoration of wetlands or other aquatic habitat using dredged material; creation of land using dredged material. Also includes related costs for spare parts, special tools, miscellaneous

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

materials and supplies, transportation, disposal, and equipment.

**NOTE:** Line item submissions for Corps-owned hopper dredges should be separate from line item submissions for any other dredges.

WORK CATEGORY CODE: **61122** - Dredging - Construction and Maintenance of Dredged Material Disposal Facilities for the Navigation Function ~~(Includes elements for navigation activities of old Feature Cost Codes 63331 and 63332)~~

WORK CATEGORY DESCRIPTION: Construction and Maintenance of Disposal Facilities for Dredged Materials for navigation features.

Includes all costs for the construction and the maintenance of dredged material disposal facilities including confined disposal facilities, and costs for required real estate activities. Also includes related costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation, and equipment usage.

WORK CATEGORY CODE: **61130**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61140** - Water Management (Control and Quality) Equipment for the Navigation Function ~~(Includes elements for navigation activities of old Feature Cost Code 63010)~~

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for navigation features.

Includes all costs for the purchase of new or replacement equipment (upgrades or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP).

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61151** - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Navigation Function  
(Includes elements for navigation activities of old Feature Cost Code 62000)

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for navigation features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management, which is included in Work Category Code 60411.

WORK CATEGORY CODE: **61152** - Real Estate - Resolution of Real Estate Encroachments for the Navigation Function (Includes elements for navigation activities of old Feature Cost Code 62060)

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for navigation features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. The costs for boundary line surveys and remarking are included in Work Category Code 61153.



Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61153** - Real Estate - Boundary Monumentation and Rectification for the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Code 62080~~)

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for navigation features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. ~~Excludes operational maintenance of boundary monumentation which is included in Work Category Code 60411.~~ Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61160** - Environmental Compliance (Remedial Actions) for the Navigation Function (~~Includes elements for navigation activities of old Feature Cost Codes 62116, 62250, 62640, 62750, 63270, and 63340~~)

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for Locks, Dams, Reservoirs, Breakwaters, Jetties, Seawalls, Piers, Levees, Other Control Structures, Pumping Plants, Other Facilities, Channels and Canals for navigation features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for locks, dams, reservoirs, breakwaters, jetties, seawalls, piers, levees, other control structures, pumping plants, other facilities, channels and canals. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental compliance assessment manuals. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must also include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **61170** - O&M Major Rehabilitation Projects for the Navigation Function (~~Includes elements for navigation major rehabilitation projects of old Feature Cost Codes 62111 and 62210~~)

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY DESCRIPTION: Remaining O&M Funded Major Rehabilitation projects for navigation features.

Includes all major rehabilitation costs such as repair, replacement, additions and efficiency improvements to lock structures and facilities for passage of waterborne traffic, and all costs for facilities and equipment for dams, spillways, outlet works and auxiliary dams including gates, valve operating machinery, lock walls, and guide and guard-walls including dolphins within the lock approaches for tie up, guard, or guide purposes.

**NOTE:** Major rehabilitation, deficiency correction, and reconstruction projects are programmed for initial Construction, General (CG) appropriation and Inland Waterways Trust Fund moneys, as appropriate, only after applicable reconnaissance and/or evaluation reports have been approved. Work items for Major Rehabilitation Evaluation Reports are included in Work Category Code 60122. This Work Category will be used only until O&M funded Major Rehabilitation projects are completed.

WORK CATEGORY CODE: **61180**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61190**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61211** - Maintenance for the Flood Damage Reduction Function (~~includes elements for flood damage reduction activities of old Feature Cost Codes 62111, 62115, 62120, 62710, 62740, 62810, 63020, 63210 and 63321~~)

WORK CATEGORY DESCRIPTION: Maintenance of Dams, Reservoirs, Levees, Floodwalls, Hurricane Barriers, and Other Flood Damage Reduction Structures; Snagging, Clearing, Aquatic Plant Removal, Rock and Other Debris Removal, and Other Non-Dredging Flood Damage Reduction Channel Maintenance; Pumping Plants, Other Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Maintenance and Purchase of Permanent Operating Equipment for Non-Water Control Management Activities; etc. excluding dredging for flood damage reduction features.

Includes all direct costs for the maintenance and repair, ~~excluding operational maintenance~~, replacement, additions and efficiency improvements to, or retirement of; related costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment for non-Water Management activities:

of facilities and equipment for **dams, spillways, outlet works and auxiliary dams;**

of **reservoirs and facilities** including floating trash booms, trash racks, erosion control, drainage, major periodic or one-time removal of debris or aquatic growth to ensure proper functioning of the reservoir (minor and routine removal of growth and debris in the vicinity of dam structures and from reservoirs should be charged to Work Category Code 60210); and rim grouting or mine sealing, etc., to prevent leakage;

of **levees, floodwalls, hurricane barriers, embankments, walls, in-channel structures, and other flood damage reduction structures to protect areas from inundation; and snagging, clearing, debris removal, and non-dredging flood damage reduction channel maintenance.** This includes direct costs for removal of trees, brush, accumulated snags, drifts, and debris from canals and waterways for flood damage reduction and major drainage purposes; and channel improvement structures and revetments, linings, dikes, jetties, bulkheads, and buildings (when provided for flood damage reduction);

of **pumping plants** including such items as buildings, pumps, and prime movers including power supplies, controls, piping, and all other associated facilities;

of **buildings, grounds, utilities, and roads, railroads and bridges**, such as administration and shop buildings, storage and garage buildings and areas, other non-leased or rented project buildings, local streets and sidewalks, project access roads, including the road across dams, parking areas, bridges, railroads, and walkways. Also includes direct costs for project utilities including electrical, gas, water, and sewer systems;

of **permanent operating equipment;**

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

and for **instrumentation on dam structures and levees, floodwalls, hurricane barriers, and other flood damage reduction structures** including all costs for the installation and maintenance of instruments in existing structures for safety evaluation purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **61212** - Maintenance of Dikes, Revetments, Breakwaters and Similar Structures for Mississippi River and Tributaries (MR&T) Flood Damage Reduction ~~(Includes elements for flood damage reduction activities of old Feature Cost Codes 63100 and 63322)~~

WORK CATEGORY DESCRIPTION: Maintenance of Dikes, Revetments, Groins, Breakwaters, Jetties, Seawalls and Similar Structures for MR&T flood damage reduction purposes.

Includes all costs for the maintenance and repair, ~~excluding operational maintenance, and repair,~~ replacement, additions and efficiency improvements to, or retirement of revetments, dikes, groins, breakwaters, seawalls, piers, linings, training dikes, bulkheads and similar structures. Also includes related costs for spare parts, replacements, additions, special tools, miscellaneous materials and supplies, transportation costs, equipment usage, associated government plant and hired labor for project maintenance, contract support, and other costs.

WORK CATEGORY CODE: **61221** - Dredging Activities for the Flood Damage Reduction Function ~~(Includes old Feature Cost Code 63312 and elements for flood damage reduction activities of old Feature Cost Codes 63333, 63334 and 63335)~~

WORK CATEGORY DESCRIPTION: Dredging of Channels and Canals for flood damage reduction activities including all disposal activities. Disposal activities include, but are not limited to, confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all costs for dredging, excavation and disposal activities for the maintenance and efficiency improvements of channels and canals for flood damage reduction purposes, except project condition sediment survey costs which are included in Work Category Code 60221. Includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. This Work Category also includes all costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; creation or restoration of wetlands or other aquatic habitat using dredged material; and creation of land using dredged material. Also includes related costs for spare parts, special tools, miscellaneous

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: **61222** - Dredging - Construction and Maintenance of Disposal Facilities for the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Codes 63331 and 63332)~~

WORK CATEGORY DESCRIPTION: Construction and Maintenance of Disposal Facilities for Dredged Materials for flood damage reduction features.

Includes all costs for the construction and the maintenance of dredged material disposal facilities including confined disposal facilities, and required real estate activities. Also includes related costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: **61230**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61240** - Water Management (Control and Quality) Equipment for the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Code 63010)~~

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for flood damage reduction features.

Includes all costs for the purchase of new or replacement equipment (upgrades or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP).

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61251** - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Code 62000)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for flood damage reduction features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management, which is included in Work Category Code 60411.

WORK CATEGORY CODE: **61252** - Real Estate - Resolution of Real Estate Encroachments for the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Code 62060)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for flood damage reduction features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. Costs for boundary line surveys and remarking are included in Work Category Code 61253.

WORK CATEGORY CODE: **61253** - Real Estate - Boundary Monumentation and Rectification for the Flood Damage Reduction Function ~~(Includes elements for flood damage reduction activities of old Feature Cost Code 62080)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for flood damage reduction features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. ~~Excludes operational maintenance of boundary monumentation which is included in Work Category Code 60411.~~ Under normal circumstances there will be

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61260** - Environmental Compliance (Remedial Actions) for the Flood Damage Reduction Function (Includes elements for flood damage reduction activities of old Feature Cost Codes 62116, 62640, 62750, 62840, 63270, and 63340)

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for Dams, Breakwaters, Jetties, Seawalls, Levees, Floodwalls, Hurricane Barriers, Other Flood Damage Reduction Structures, Pumping Plants, Other Facilities, Channels and Canals for flood damage reduction features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for dams, breakwaters, jetties, seawalls, levees, floodwalls, hurricane barriers, other flood damage reduction structures, pumping plants, other facilities, channels and canals. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental compliance assessment manuals. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must also include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **61270**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61280**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61290**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61310 (61311-61314)** - Baseline Maintenance for the Hydropower Function ~~(Includes old Feature Cost Code 62310 (62311-62315), and elements for hydropower activities of old Feature Cost Codes 62111, 62115, 62120, 63020, 63210, 63321).~~ Costs for this function will be subdivided as follows:

**61311** - Baseline Maintenance Supervision, FERC #541. Costs for labor, materials and expenses incurred in the general supervision of maintenance of hydraulic power generating stations. Direct supervision of specific jobs is charged to the appropriate maintenance feature;

**61312** - Baseline Maintenance of Hydraulic Structures, FERC #542. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the powerhouse, and power intake works whether or not the powerhouse is an integral part of the intake dam;

**61313** - Baseline Maintenance of Electric Plant, FERC #544. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the power plant generating and accessory electrical and mechanical equipment, and switchyard electrical and mechanical equipment;

**61314** - Baseline Maintenance of Miscellaneous Hydraulic Plant, FERC #545. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the power plant and switchyard hydraulic plant.

WORK CATEGORY DESCRIPTION: ~~Baseline Maintenance of Power Plants, and related Facilities (e.g. Dams and Reservoirs), Service Facilities (Buildings, Grounds, Utilities, Roads, Railroads and Bridges), Instrumentation on Dam Structures, Maintenance and Purchase of Permanent Operating Equipment, and Non-dredging Channel Maintenance,~~ excluding dredging for hydropower features.

Includes all Baseline costs for power plant maintenance and repair, replacements, additions and efficiency improvements to, and retirement of all power plant structures; of facilities and equipment required for production, transmission, and distribution of electrical power, including but not limited to the power plant, spillway, low flow bypass systems, storage facilities, turbines, motors, pumps, generators, and governors; of all accessory electrical or electronic equipment and control systems; of all water, air, and oil systems; of all intake structures with electrical and mechanical equipment; of the tailrace, switchyard, transformer yard,



Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

elevators, trash racks; and of lighting and interior power distribution systems, cable tunnels and conduit runs; and installation of instrumentation. Includes spare parts, special and regular tools, supplies and equipment, scaffolding, and rental of specialized equipment. Includes labor and materials, and incidental expenses incurred to maintain maintenance records; expenses incurred by the power plant management and support staff in the general supervision of the maintenance of the hydraulic generating station; and transportation and per diem costs required to perform power plant maintenance functions. ~~This account excludes operational maintenance.~~ Dredging is included in Work Category Code 61320. See Work Category Code 613N0 (613N1-613N4) for Non-Baseline accounts.

WORK CATEGORY CODE:      **613N0 (613N1-613N4)** - Non-Baseline Maintenance for the Hydropower Function ~~(Includes old Feature Cost Code 62320 (62321-62325), and elements for hydropower activities of old Feature Cost Codes 62111, 62115, 62120, 63020, 63210, 63321).~~ Costs for this function will be subdivided as follows:

**613N1** - Non-Baseline Maintenance Supervision, FERC #541. Costs for labor, materials and expenses incurred in the general supervision of maintenance of hydraulic power generating stations. Direct supervision of specific jobs is charged to the appropriate maintenance feature;

**613N2** - Non-Baseline Maintenance of Hydraulic Structures, FERC #542. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the powerhouse, and power intake works whether or not the powerhouse is an integral part of the intake dam;

**613N3** - Non-Baseline Maintenance of Electric Plant, FERC #544. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the power plant generating and accessory electrical and mechanical equipment, and switchyard electrical and mechanical equipment;

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

**613N4** - Non-Baseline Maintenance of Miscellaneous Hydraulic Plant, FERC #545. Costs for labor, materials and expenses incurred in the maintenance, repair, replacement, additions and efficiency improvements to, and retirement of the power plant and switchyard hydraulic plant.

~~WORK CATEGORY DESCRIPTION: Non-Baseline Maintenance of Power Plants, and related Facilities (e.g. Dams and Reservoirs), Service Facilities (Buildings, Grounds, Utilities, Roads, Railroads and Bridges), Instrumentation on Dam Structures, Maintenance and Purchase of Permanent Operating Equipment, and Non-dredging Channel Maintenance, excluding dredging for hydropower features.~~

Includes all Non-Baseline costs for power plant maintenance and repair, replacements, additions and efficiency improvements to, and retirement of all power plant structures; of facilities and equipment required for production, transmission, and distribution of electrical power, including but not limited to the power plant, spillway, low flow bypass systems, storage facilities, turbines, motors, pumps, generators, and governors; of all accessory electrical or electronic equipment and control systems; of all water, air, and oil systems; of all intake structures with electrical and mechanical equipment; of the tailrace, switchyard, transformer yard, elevators, trash racks; of lighting and interior power distribution systems, cable tunnels and conduit runs; and installation of instrumentation. Includes spare parts, special and regular tools, supplies and equipment, scaffolding, and rental of specialized equipment. Includes labor and materials, and incidental expenses incurred to maintain maintenance records; expenses incurred by the power plant management and support staff in the general supervision of the maintenance of the hydraulic generating station; and transportation and per diem costs required to perform power plant maintenance functions. ~~This account excludes operational maintenance.~~ Dredging is included in Work Category Code 61320. See Work Category Code 61310 (61311-61314) for Baseline accounts.

WORK CATEGORY CODE: **61320** - Dredging Activities for the Hydropower Function, FERC #543  
~~(Includes elements for hydropower activities of old Feature Costs Codes 63333, 63334 and 63335)~~

WORK CATEGORY DESCRIPTION: Dredging for hydropower activities including all disposal activities.

Includes all costs for maintenance dredging and disposal activities, except project condition sediment survey costs which are included in Work Category Code 60321. It also includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. This Work Category also includes related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: **61330**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61340** - Water Management (Control and Quality) Equipment for the Hydropower Function, FERC #542 ~~(Includes elements for hydropower activities of old Feature Cost Code 63010)~~

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for hydropower features.

Includes all costs for the purchase of new or replacement equipment (upgrades or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP).

WORK CATEGORY CODE: **61351** - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Hydropower Function, FERC #545 ~~(Includes elements for hydropower activities of old Feature Cost Code 62000)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for hydropower features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management, which is included in Work Category Code 60411.

WORK CATEGORY CODE: **61352** - Real Estate - Resolution of Real Estate Encroachments for the Hydropower Function, FERC #545 ~~(Includes elements for hydropower activities of old Feature Cost Code 62060)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for hydropower features.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. The costs for boundary line surveys and remarking are not included in this Work Category.

WORK CATEGORY CODE: **61353** - Real Estate - Boundary Monumentation and Rectification for the Hydropower Function, FERC #545 (~~Includes elements for hydropower activities of old Feature Cost Code 62080~~)

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for hydropower features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. ~~Excludes operational maintenance of boundary monumentation which is included in Work Category Code 60411.~~ Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61360** - Environmental Compliance (Remedial Actions) for the Hydropower Function, FERC #545 (~~Includes elements for hydropower activities of old Feature Cost Codes 62116, 62360, 62640, 62750, 62840, 63270, and 63340~~)

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for Dams, Levees, Other Control Structures, Power Plants, Pumping Plants, and Other Facilities for hydropower features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for dams, levees, other control structures, power plants, pumping plants, and other facilities. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental compliance assessment manuals. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must also include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61370 (61371-61374)** - O&M Major Rehabilitation Projects for the Hydropower Function ~~(Includes elements for hydropower activities of old Feature Cost Codes 62331, 62332, 62333, 62334, 62335).~~ Costs for this function will be further sub-divided as follows:

**61371** - Comprehensive Replacement Supervision, FERC #541. Costs for labor, materials and expenses incurred in the supervision of the comprehensive replacement of hydraulic power generating stations. Direct supervision of specific jobs is charged to the appropriate maintenance feature;

**61372** - Comprehensive Replacement of Structures, FERC #542. Costs for labor, materials and expenses incurred in the comprehensive replacement of the powerhouse, switchyard, and power intake works whether or not the powerhouse is an integral part of the intake dam;

**61373** - Comprehensive Replacement of Electric Plant, FERC #544. Costs for labor, materials and expenses incurred in the comprehensive replacement of the power plant generating and accessory electrical and mechanical equipment, and switchyard electrical and mechanical equipment;

**61374** - Comprehensive Replacement of Miscellaneous Hydraulic Plant, FERC # 545. Costs for labor, materials and expenses incurred in the comprehensive replacement of the power plant and switchyard hydraulic plant.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY DESCRIPTION: Remaining O&M Funded Major Rehabilitation (Comprehensive Replacement) projects for hydropower features.

Includes all costs for comprehensive major rehabilitation, replacement, repair, additions and efficiency improvements, including supervision, of all power plant structures, electric plant, miscellaneous hydraulic plant, power plant intake works; of facilities and equipment required for production, transmission, and distribution of electrical power, including but not limited to the power plant, spillway, low flow bypass systems, storage facilities, turbines, motors, pumps, generators, and governors; of all accessory electrical or electronic equipment and control systems; of all water, air, and oil systems; of all intake structures with electrical and mechanical equipment; of the tailrace, switchyard, transformer yard, elevators, trash racks; and of lighting and interior power distribution systems, cable tunnels and conduit runs. Includes labor and materials, special and regular tools, supplies and equipment, scaffolding, and rental of specialized equipment. ~~This feature excludes operational maintenance.~~ See Work Category Codes 61310 (61311-61314) and 613N0 (613N1-613N4).

**NOTE:** Major Rehabilitation work is now funded under the Construction, General (CG) appropriation. Work items for Major Rehabilitation Evaluation Reports are included in Work Category Code 60325. This Work Category will be used only until current O&M funded Major Rehabilitation projects are completed.

WORK CATEGORY CODE: **61380**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61390**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61411** - Maintenance of Natural Resource Facilities (~~Includes old Feature Cost Code 62410~~)

WORK CATEGORY DESCRIPTION: Maintenance of Natural Resource Facilities.

Includes all costs to perform maintenance needed to conserve and protect natural resources and associated facilities located on project lands. This Work Category only includes costs during the conservation or protection effort.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61412** - Mitigation of Archeological and Cultural Resources ~~(Includes old Feature Cost Code 62430)~~

WORK CATEGORY DESCRIPTION: Mitigation of Archeological and Cultural Resources such as Sites, Structures, and Objects.

Includes all costs to manage, curate, maintain and rehabilitate identified archeological collections and associated documentation, and long term collections management, and outreach, educational, Native people programs. Also includes cultural resources mitigation costs to protect, recover, preserve or otherwise mitigate significant archaeological, historical, and cultural buildings, sites, structures or objects. This Work Category only includes costs during the recovery, preservation, or mitigation effort.

WORK CATEGORY CODE: **61413** - Maintenance of Wildlife Mitigation Features ~~(Includes old Feature Cost Code 62450)~~

WORK CATEGORY DESCRIPTION: Maintenance of Wildlife Mitigation Features.

Includes all costs for the maintenance and repair of wildlife mitigation features to comply with Federal laws and mitigation requirements to offset losses caused by existing and new project activities. This Work Category only includes costs during the mitigation effort.

WORK CATEGORY CODE: **61414** - Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures ~~(Includes old Feature Cost Code 62420)~~

WORK CATEGORY DESCRIPTION: Maintenance of Fisheries, Fish Haulage Activities and Fish Passage Structures for environmental stewardship features.

Includes all costs for maintenance and repair of fish hatcheries, egg collection stations, transportation equipment, and fish passage facilities, excluding operational maintenance.

WORK CATEGORY CODE: **61421** - Dredging Activities for the Environmental Stewardship Function ~~(Includes elements for environmental stewardship activities of old Feature Costs Codes 63333, 63334 and 63335)~~

WORK CATEGORY DESCRIPTION: Dredging of Channels and Canals for environmental stewardship activities including all disposal activities. Disposal activities include, but are not limited to, confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

Includes all costs for maintenance dredging of project channels and canals, and disposal activities, except project condition sediment survey costs which are included in Work Category Code 60420. It also includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. This Work Category also includes all costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; creation or restoration of wetlands or other aquatic habitat using dredged material; and creation of land using dredged material. Also includes related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE: **61422** - Dredging - Construction and Maintenance of Disposal Facilities for the Environmental Stewardship Function (~~Includes elements for environmental stewardship activities of old Feature Cost Codes 63331 and 63332~~)

WORK CATEGORY DESCRIPTION: Construction and Maintenance of Disposal Facilities for Dredged Materials for environmental stewardship features.

Includes all costs for the construction and the maintenance of disposal facilities including confined disposal facilities, and required real estate activities. Also includes related costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: **61430**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61440** - Water Management (Control and Quality) Equipment for the Environmental Stewardship Function (~~Includes elements for environmental stewardship activities of old Feature Cost Code 63010~~)

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for environmental stewardship features.

Includes all costs for the purchase of new or replacement equipment (upgrades or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP).



Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61451** - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Environmental Stewardship Function (~~Includes elements for environmental stewardship activities of old Feature Cost Code 62000~~)

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for environmental stewardship features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management which is included in Work Category Code 60411.

WORK CATEGORY CODE: **61452** - Real Estate - Resolution of Real Estate Encroachments for the Environmental Stewardship Function (~~Includes elements for environmental stewardship activities of old Feature Cost Code 62060~~)

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for environmental stewardship features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. Costs for boundary line surveys and remarking are included in Work Category Code 61453.

WORK CATEGORY CODE: **61453** - Real Estate - Boundary Monumentation and Rectification for the Environmental Stewardship Function (~~Includes elements for environmental stewardship activities of old Feature Cost Code 62080~~)

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for environmental stewardship features.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. ~~Excludes operational maintenance of boundary monumentation which is included in Work Category Code 60411.~~ Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61460** - Environmental Compliance (Remedial Actions) for the Environmental Stewardship Function ~~(Includes old Feature Cost Code 62440 and elements for environmental stewardship of old Feature Cost Code 63270)~~

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) of Natural Resources including Other Service Facilities for environmental stewardship features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for natural resources and other environmental stewardship features. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental compliance assessment manuals. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must also include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **61470**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61480**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61490**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61511** - Maintenance of Recreation Features ~~(Includes old Feature Costs Codes 62910 and 62940, and elements for recreation activities of old Feature Cost Code 62950)~~

WORK CATEGORY DESCRIPTION: Maintenance of Recreation areas and Facilities, Visitor Centers, ~~Other Recreation Service Facilities —~~ (Buildings, Grounds, Utilities, Roads and Bridges), ~~and~~ Erosion Control in Recreation Areas, and Maintenance and Purchase of Permanent Operating Equipment for recreation features.

Includes all costs for the maintenance and repair, replacement, additions and efficiency improvements to, or retirement of, visitor center buildings, displays, audiovisual systems, heating and cooling systems, landscaping, grounds, exhibits and utilities; recreation facilities and structures such as grills, tables, playgrounds, trails, campgrounds, picnic areas, restrooms, showers, boat ramps, parking areas, roads, grounds, utilities associated with recreation use, buildings used for recreation purposes or the collection of fees and other structures used to support the recreation function. Also included are the costs for realignment, overlay, grading, and widening, of roads, parking areas, bridges and walkways associated with recreational development, and all costs for control of erosion endangering recreational areas or facilities, including seeding, sodding, riprap, gabions, vegetation, retaining walls and other measures. Also includes the costs for permanent operating equipment such as backhoe, trencher, bucket truck, tractor loader, vehicles, communications equipment, and computers used to support the recreation function of the project. This Work Category also includes costs for spare parts, replacements, additions, special tools, miscellaneous materials and supplies, transportation costs and equipment usage, and costs to bring facilities up to modern design standards and to provide ~~handicap universal~~ accessibility for persons with disabilities as required. ~~Operational maintenance is included in Work Categories 60511 and 60512.~~

Costs for E&D plans and specifications for the Recreation Modernization Program should be included here.

This work category includes costs previously included in WCC 61512, Maintenance of Recreation Facilities using SRUF funds (see paragraph C-2.15 SRUF).

WORK CATEGORY CODE: **61512** - ~~Maintenance of Recreation Features Using Special Recreation Users Fee (SRUF) Funds (Includes old Feature Costs Code 62990)~~

WORK CATEGORY DESCRIPTION: ~~Maintenance of Recreation Areas using Special Recreation User Fees (SRUF) including Visitor Centers, Other Recreation Facilities — Buildings, Grounds, Utilities, Roads and Bridges, and Erosion Control in Recreation Areas, and Maintenance and Purchase of Permanent Operating Equipment for recreation features.~~

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

~~Includes all maintenance costs which utilize Special Recreation Users Fee (SRUF) funds. Includes all costs associated with the maintenance of visitor centers, recreation areas and facilities to perform activities as described in Work Category Code 61511. SRUF funds can be used to supplement the costs to operate, maintain, and when feasible, improve recreation facilities. SRUF funds are first to be used to finance normal O&M activities so as to ensure continued operation and maintenance of these facilities.~~

SRUF costs previously included under WCC 61512 should now be included under WCC 61511.

WORK CATEGORY CODE:       **61513** - Maintenance of Recreation Features - Cost Shared Recreation Developments ~~(Includes old Feature Cost Code 62980)~~

WORK CATEGORY DESCRIPTION: Cost Shared Recreation Developments - Contracts and Negotiations.

Includes all recreation cost share agreements and contract costs; costs to reimburse local sponsors; and costs for monitoring and negotiating agreements related to cost sharing.

WORK CATEGORY CODE:       **61520** - Dredging Activities for the Recreation Function ~~(Includes elements for recreation activities of old Feature Costs Codes 63333, 63334 and 63335)~~

WORK CATEGORY DESCRIPTION: Dredging for recreation activities including all disposal activities.

Includes all costs for maintenance dredging and disposal activities, except project condition sediment survey costs which are included in Work Category Code 60520. It also includes the costs for before, during and after dredging surveys, required real estate activities, E&D, S&A, etc. Also included are costs to obtain environmental clearances to perform the associated dredging. Also includes all costs associated with the disposal of dredged materials as sand on beaches, and related costs for spare parts, special tools, miscellaneous materials and supplies, transportation, disposal, and equipment.

WORK CATEGORY CODE       **61530**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE:       **61540** - Water Management (Control and Quality) Equipment for the Recreation Function ~~(Includes elements for recreation activities of old Feature Cost Code 63040)~~

WORK CATEGORY DESCRIPTION: Purchase and Maintenance of Water Management (Control and Quality) Equipment for recreation features.

Includes all costs for the purchase of new or replacement equipment (upgrades or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP).

WORK CATEGORY CODE: **61551** - Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for the Recreation Function ~~(Includes elements for recreation activities of old Feature Cost Code 62000)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits for recreation features.

Includes all costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests. Also includes real estate payments for acquisition of real property and interests therein. Costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired. Includes all administrative costs incurred in connection with timber disposal in support of forest management activities, such as contract administration, and inspection, but excludes the staff supervision of timber management which is included in Work Category Code 60411.

WORK CATEGORY CODE: **61552** - Real Estate - Resolution of Real Estate Encroachments for the Recreation Function ~~(Includes elements for recreation activities of old Feature Cost Code 62060)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Resolution of Real Estate Encroachments for recreation features.

Includes all costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting. Costs for boundary line surveys and remarking are included in this Work Category Code 61553.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61553** - Real Estate - Boundary Monumentation and Rectification for the Recreation Function ~~(Includes elements for recreation activities of old Feature Cost Code 62080)~~

WORK CATEGORY DESCRIPTIONS: Real Estate - Boundary Monumentation and Rectification for recreation features.

Includes all costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions, and costs to survey and mark boundary lines where not previously completed. ~~Excludes operational maintenance of boundary monumentation which is included in Work Category Code 60411.~~ Under normal circumstances there will be no work items in the Baseline funding level for this Work Category.

WORK CATEGORY CODE: **61560** - Environmental Compliance (Remedial Actions) for the Recreation Function ~~(Includes old Feature Cost Code 62914)~~

WORK CATEGORY DESCRIPTION: Environmental Compliance (remedial actions) for recreation features.

Includes all maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for recreation facilities and visitor centers. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental compliance assessment manuals. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must also include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

WORK CATEGORY CODE: **61570**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61580**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61590**

WORK CATEGORY DESCRIPTION: Reserved.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61610** - Joint Activities for Maintenance excluding Dredging, FERC #541, #542, #543, #544 and #545 ~~(Includes elements for joint activities of old Feature Cost Codes 62111, 62115, 62120, 62210, 62240, 62310 (62311-62315), 62320 (62321-62325), 62370 (62371-62775), 62610, 62710, 62740, 62810, 63020, 63210, 63240 and 63321)~~

WORK CATEGORY DESCRIPTION: Joint costs for Maintenance activities NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation. These activities include maintenance of Dams, Reservoirs, Levees, Floodwalls, Hurricane Barriers, and Other Control Structures; Snagging, Clearing, Aquatic Plant Removal, Rock and Other Debris Removal, and Other Non-Dredging Channel Maintenance; Pumping Plants, Other Service Facilities (Buildings, Grounds, Utilities, and Roads, Railroads and Bridges), Maintenance and Purchase of Permanent Operating Equipment, etc. excluding dredging.

Includes all joint costs for the maintenance and repair, ~~excluding operational maintenance~~, replacement, additions and efficiency improvements to, or retirement of; related joint costs for spare parts, replacements, additions, special tools, miscellaneous supplies and materials; government plant and hired labor for project maintenance and contract support, transportation costs and other costs required to perform this maintenance function; purchase of permanent operating equipment:

of joint use facilities and equipment for **dams, spillways, outlet works and auxiliary dams;**

of **reservoirs and facilities** including floating trash booms, trash racks, erosion control, drainage, major periodic or one time removal of debris or aquatic growth to ensure proper functioning of the reservoir (minor and routine removal of growth and debris in the vicinity of dam structures and from reservoirs should be charged to Work Category Code 60610); and rim grouting or mine sealing, etc., to prevent leakage;

of **levees, floodwalls, hurricane barriers, embankments, walls, in-channel structures, and other control structures to protect areas from inundation; snagging, clearing, debris removal; and non-dredging channel maintenance.** This includes costs for removal of trees, brush, accumulated snags, drifts, and debris from canals and waterways; and channel improvement structures, revetments, linings, dikes, jetties, bulkheads, and buildings;

of **pumping plants** including such items as buildings, pumps, and prime movers including power supplies, controls, piping, and all other associated facilities;

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

of **non-dredging channel maintenance** including snagging, clearing, aquatic plant removal, removal of sunken vessels, drift removal, rock and other debris removal;

of **buildings, grounds, utilities, and roads, railroads and bridges**, such as administration and shop buildings, storage and garage buildings and areas, other non-leased or rented project buildings, local streets and sidewalks, project access roads, including the road across dams, parking areas, bridges, railroads, and walkways. Also includes costs for project utilities including electrical, gas, water, and sewer systems;

of **permanent operating equipment**;

and for **instrumentation on dam structures, levees, floodwalls, hurricane barriers, and other control structures** including costs related to installation and maintenance of instruments in existing structures for safety evaluation purposes consistent with an approved plan. This includes instrumentation for measuring horizontal and vertical movement, stresses and strains, pore pressure, phreatic surfaces, seismic effects, and seepage clarity and quality.

WORK CATEGORY CODE: **61621** - Joint Activities for Dredging, FERC #543 ~~(includes elements for joint activities of old Feature Cost Codes 63311, 63312, 63333, 63334 and 63335)~~

WORK CATEGORY DESCRIPTION: Joint costs for Dredging of Channels and Canals NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation. These activities include all disposal activities such as confined, open water, beach, wetland creation, aquatic habitat creation, etc.

Includes all joint costs for maintenance dredging of project channels and canals, and disposal activities, except for project condition sediment survey costs which are included in Work Category Code 60621. Also included are joint costs to obtain environmental clearances to perform the associated dredging. Long-range environmental requirements and costs for initial project condition surveys are included in related operations accounts. Also includes joint costs associated with the disposal of dredged materials in confined disposal facilities; open water; sand on beaches; the creation or restoration of wetlands or other aquatic habitat using dredged material; and the creation of land using dredged material. Also includes related joint costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: **61622** - Joint Activities for Dredging - Construction and Maintenance of Dredged Material Disposal Facilities, FERC #543 ~~(includes elements for joint activities of old Feature Cost Codes 63331 and 63332)~~

WORK CATEGORY DESCRIPTION: Joint costs for the Construction and Maintenance of Disposal Facilities for Dredged Materials NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental



Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

Stewardship, and Recreation.

Includes all joint costs for the construction and the maintenance of disposal facilities, including confined disposal facilities, for dredged materials. Also includes related joint costs for spare parts, replacements, special tools, miscellaneous materials and supplies, transportation and equipment usage.

WORK CATEGORY CODE: **61630**

WORK CATEGORY DESCRIPTION: Reserved

WORK CATEGORY CODE: **61640** - Joint Activities for Water Management Equipment, FERC #542  
(Includes elements for joint activities of old Feature Cost Code 63010)

WORK CATEGORY DESCRIPTION: Joint costs for the Purchase and Maintenance of Water Management (Control and Quality) Equipment NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for the purchase of new or replacement equipment (upgrades or expansion) and the maintenance of existing equipment used to acquire, process, display, and distribute data associated with project water management and regulation (water control and quality). This includes only those costs related to equipment justified in approved Division water management Master plans. Purchase of multi-project equipment will be included in the Revolving Fund (PRIP).

WORK CATEGORY CODE: **61651** - Joint Activities for Real Estate - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits, FERC #545  
(Includes elements for joint activities of old Feature Cost Code 62000)

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate activities - Land Acquisition and Disposal Management Activities, Settlement of Claims, and Audits NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for planning, appraisal, negotiation, condemnation, relocation assistance, mapping, surveying, title evidence, inspections, closings, audits and temporary permits necessary to acquire or dispose of lands and interests, real estate payments for acquisition of real property and interests therein, and costs to take necessary actions to settle claims, including damage payments arising from claims over the use and occupancy of land, real property and timber in which fee, easements, or lesser interests were not acquired.

WORK CATEGORY CODE: **61652** - Joint Activities for Real Estate - Resolution of Real Estate Encroachments, FERC #545 (Includes elements for joint activities of old Feature Cost Code 62060)

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate activities - Resolution of Real Estate Encroachments NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs for the resolution of all encroachments on project lands, and degradation of public lands and encroachments adversely affecting the intended uses of potentially high use areas; including investigation, acquisition, disposal, and out-granting.

WORK CATEGORY CODE: **61653** - Joint Activities for Real Estate - Boundary Monumentation and Rectification, FERC #545 (~~Includes elements for joint activities of old Feature Cost Code 62080~~)

WORK CATEGORY DESCRIPTION: Joint costs for Real Estate activities - Boundary Monumentation and Rectification NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation.

Includes all joint costs to survey and mark boundary lines in support of acquisition; to resurvey or remark boundary lines and place monuments in support of Executive Order actions and disposal actions; and costs to survey and mark boundary lines where not previously completed. ~~Excludes operational maintenance of boundary monumentation.~~

WORK CATEGORY CODE: **61660** - Joint Activities for Environmental Compliance (Remedial Actions), FERC #545 (~~Includes elements for joint activities of old Feature Cost Codes 62116, 62250, 62360, 62440, 62640, 62750, 62840, 62911, 63270, and 63340~~)

WORK CATEGORY DESCRIPTION: Joint costs for Environmental Compliance (remedial actions) NOT specific to Navigation, Flood Damage Reduction, Hydropower, Environmental Stewardship, and Recreation. These activities include actions for Dams, Levees, Other Control Structures, Pumping Plants and Other Project Facilities.

Includes all joint costs maintenance, repair and remediation costs to comply with applicable Federal laws and regulations, including the Safe Drinking Water Act, Resource Conservation and Recovery Act (RCRA), Clean Air Act, Hazardous Materials Transportation Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable state and local regulations for dams, reservoirs, levees, other control structures, pumping plants and other joint use project facilities. Federal, DOD and Corps of Engineers requirements are described in the ERGO/TEAM environmental compliance assessment manuals. Costs include salaries, contaminant detection, waste analysis, site investigations, site remediation, treatment system installation, repair, renovation, modification, and other costs associated with compliance. Costs associated with medical surveillance and other employee health and safety requirements are not included. Environmental compliance program requests must also include the mandatory data elements of the FEDPLAN Report authorized by Executive Order 12088.

Table C-2.3d  
Work Category Codes and Definitions

**O&M Maintenance Accounts**

WORK CATEGORY CODE: **61670**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61680**

WORK CATEGORY DESCRIPTION: Reserved.

WORK CATEGORY CODE: **61690**

WORK CATEGORY DESCRIPTION: Reserved.

TABLE C-2.4

SUBMISSION REQUIREMENTS

ILL. NO.	ITEMS	HARD COPY	ADP	NO. COPIES	DUE DATE (NLT)
	Work package information into computer		X	N/A	145 May 19992000
	Final MSC rankings into computer		X	N/A	142 June 19992000
	Baseline Level PB-2a For Major Rehabilitation Projects. (Reduced to 8 1/2" x 11")	X		4	30 June 19992000 (See Appendix B)
	Evaluation Reports for Major Rehabilitation Projects	X		3	15 March 19992000
B-2.4	BY Justification Sheet for Major Rehabilitation Projects			N/A	1 June 19992000 (See Appendix A)
C-2.1	Supplemental Justification Major Maintenance			3	142 June 19992000
C-2.2	Supplemental Justification - Budgeted Material Management	X		3	1 July 30 June 19992000
C-2.3	Worksheet For Four-year Program	X		N/A	3/
C-2.4	Four-year Program			N/A	3/
C-2.5	Justification of Estimates (Congressional Submission)		X	N/A	1/ 2/

1/ Precise suspense date for Congressional submission of Justification of Estimate Sheets will be the subject of later correspondence.

2/ Information required electronically in WordPerfect format as specified in relevant sections of this EC.

3/ For use by Districts and MSC's to develop four-year program. No submittal required.

**TABLE C-2.4**  
**OPERATION AND MAINTENANCE, GENERAL (O&M, Gen.)**  
**AND**  
**FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES**  
**(MAINTENANCE)(MR&T)**  
**TARGETS**  
(Dollars in Millions)

MSC	Program Year (PY) Targets
	Total PY Target
LRD	356
MVD	351
NAD	199
NWD	226
POD	10
SAD	316
SPD	98
SWD	260
<b>Total MSCs, O&amp;M, Gen.</b>	<b>1,816</b>
<b>FC, MR&amp;T (Maintenance)</b>	<b>140</b>

NOTE: See narrative in Subappendix C-2 for guidance concerning program development and definition.

<b>TABLE C-2.5</b> <b>TIER II PERFORMANCE MEASURES</b> <b>For O&amp;M PROGRAM SUBMITTAL</b>				
<b>ENTRY #</b>	<b>PROPONENT MANAGER</b>	<b>BUSINESS FUNCTION</b>	<b>PERFORMANCE MEASURE</b>	<b>FY GOAL</b>
1	CECW-OD Barry Holliday 202-761-8832	Navigation	Percent Time Achieve Purpose - Coastal	<u>90%</u>
2	CECW-OD Barry Holliday 202-761-8832	Navigation	Percent Time Achieve Purpose - Inland	<u>95%</u>
3	CECW-OM Harold Tohlen 202-761-1713	Flood Damage Reduction	Availability	95%
4	CECW-OM Harold Tohlen 202-761-1713	Hydropower	Forced Outage	less than 4.5%
5	CECW-OM Harold Tohlen 202-761-1713	Hydropower	Unit Availability	90%
6	CECW-ON Darrell Lewis 202-761-1788	Recreation	Percent Cost of Recreation Program Recovered	20%
7	CECW-ON Darrell Lewis 202-761-1788	Recreation	Customer Satisfaction with Quality of Facilities & Services	90%
8	CECW-ON Darrell Lewis 202-761-1788	Environmental – Natural Resources	Mitigation Lands meeting Requirements	70%
9	CECW-ON Darrell Lewis 202-761-1788	Environmental – Natural Resources	Recovery of Federally Listed Species	30%
10	CECW-OA Jim Wolcott 202-761-1200	Environmental – Compliance	a. Significant Findings Corrected b. Major Findings Corrected	a. 100% b. 75%

**Tier II Performance Measure #1**

**NAVIGATION PERFORMANCE MEASURE - HARBORS**

**PURPOSE:** To provide safe, reliable, and efficient waterborne transportation systems (channels, harbors, and waterways) for movement of commerce, national security needs, and recreation.

The harbors include both the deep draft (>14 feet depth) and shallow draft waterborne transportation system consisting of ports, harbors, channels, and waterways, including the harbors of the inland waterways, whose maintenance costs are reimbursed from the Harbor Maintenance Trust Fund.

The goal for the harbors is all harbors will achieve their acceptable level of service 90 percent of the time during the established navigation season.

The essence of these performance measures involves seeking a mutual agreement with the users/local sponsors/stakeholders as to what is an acceptable level of service. Your respective goal should be achieving 100 Percent of that agreed upon level of service based on appropriated and reprogrammed project funds. Thus you will be tying your performance to your program, appropriated and reprogrammed project funds, with an acceptable level of service to your customers.

There are several scenarios in achieving your respective goals.

For the harbors, the main activity will be dredging and dredged material disposal to maintain channel dimensions. Some projects will have jetties, breakwaters, and other structures as additional features of the project to maintain as part of project performance. For most of the deep draft projects, the stakeholders will seek to negotiate full project dimensions, 100 Percent of the time. In many projects, this will be possible with annual appropriated and reprogrammed project funds. Some projects, due to environmental windows, disposal constraints, seasonal weather conditions, or differing sediment characteristics below project depth, can not be maintained at full project dimensions 100 Percent of the time. You need to strive to achieve an acceptable level of service that is reasonable and justified with respect to commercial vessel users not exceeding design vessel dimensions for the constructed project channels. Local sponsor and/or vessel operator complaints concerning available channel dimensions for vessels that exceed the constructed channel dimensions, will not be considered in the acceptable level of service.

## **Tier II Performance Measure #2**

### **NAVIGATION PERFORMANCE MEASURE - INLAND WATERWAYS**

**PURPOSE:** To provide safe, reliable, and efficient waterborne transportation systems (channels and waterways) for movement of commerce, national security needs, and recreation.

The inland waterways are the waterborne transportation system consisting of channels, locks, and pools of the inland rivers and the intra-coastal channels along the Atlantic and Gulf coasts that support commerce, national security needs, and recreation. Commercial transportation on these waterways is subject to the Inland Waterways Fuel Tax.

The goal for the inland waterways is all inland waterways projects will achieve their acceptable level of service 95 percent of the time during the established navigation season.

The essence of these performance measures involves seeking a mutual agreement with the users/local sponsors/stakeholders as to what is an acceptable level of service. The goal should be achieving 100 Percent of that agreed upon level of service based on appropriated and reprogrammed project funds. Thus you will be tying your performance to your program, appropriated and reprogrammed project funds, with an acceptable level of service to your customers.

There are several scenarios in achieving these goals.

For the inland waterways, the project can include several activities, including lock operations, dredging/channel maintenance, and water control structures. If a lock is not available for 95 Percent of the time, but the channels are at project dimensions for 100 Percent of the time, you have not met your goal. All project features will influence attaining the goal. In the event of a natural disaster (flooding), where either the U.S. Coast Guard or the Corps has closed the project channel/locks or a portion of the project channel to navigation, this will be an exception and not included in the 95 percent availability. Scheduled or unscheduled closure, during the established navigation season, which are not due to a natural disaster, will be considered in the 95 percent availability. There also may be projects where the need for waterborne transportation is seasonal, and you may develop a level of service acceptable to the stakeholders that allows the channels to shoal in during the non-navigation season, and still attain 100 Percent of your project acceptable level of service.



**Tier II Performance Measure #3**

**FLOOD DAMAGE REDUCTION (FDR) PERFORMANCE MEASURE**

<b>Corporate Goal:</b>	100 Percent Availability
<b>Customers:</b>	People directly affected by the Corps Civil Works flood damage reduction system. Taxpayers
<b>Measure:</b>	Project Availability
<b>Definition:</b>	The number of days a project is one hundred percent (100 Percent) operational to perform its flood damage reduction function. "operational" means the project's features are fully functioning as designed and constructed or can be made functional (i.e., using backup systems) if needed in response to a spillway design type flood event. If a project feature is down for whatever reason and cannot be made functional in time to respond to a flood event then the project is unavailable for that day. "features" include but are not limited to, dams, levees, embankments, dikes, gates, spillways, channels and outlet structures.
<b>Demonstrates:</b>	The effectiveness of the FDR system to provide national benefits, and a level of maintenance over time. Government managers may interpret the data from this measure in order to allocate resources in support of the FDR mission.
<b>Unit of Output:</b>	The number of days in a fiscal year quarter a project is in compliance with the definition. The days are rolled up into District, MSC and Corps values expressed as a percentage of the total days within the quarter.
<b>Data Source:</b>	Quarterly data calls from HQUSACE proponent to MSCs.

#### **Tier II Performance Measure #4**

### **HYDROPOWER PERFORMANCE MEASURE**

<b>Program Goal:</b>	Maintain a high degree of hydroelectric generating unit availability.
<b>Corporate Goal:</b>	The goal is for the forced outages to be less than 4.5 Percent. This will be refined as power industry data is analyzed.
<b>Measure:</b>	Forced outages.
<b>Definition:</b>	The percentage of time that generating units are not available because of unforeseen circumstances. This percentage is determined by dividing the unplanned outage hours by the total hours in the period. A low unplanned outage percentage demonstrates a high degree of reliability of the hydropower plants. It also reduces the cost to the customer in that they do not have to go to more expensive alternative sources. For demonstration purposes this measure will be displayed as the traditional unplanned outage percentage (industry averages available) and as a Megawatt capacity weighted unplanned outage percentage (no industry averages available).

**Tier II Performance Measure #5**

**HYDROPOWER PERFORMANCE MEASURE**

<b>Program Goal:</b>	Maintain a high degree of hydroelectric generating unit availability.
<b>Corporate Goal:</b>	The goal for unit availability is 90 Percent. This will be refined as power industry data is analyzed.
<b>Measure:</b>	Unit availability.
<b>Definition:</b>	Unit availability is the total available hours of all generator units divided by the total hours in the period (expressed as a percentage).

**Tier II Performance Measure #6**

**RECREATION PERFORMANCE MEASURE**

<b>Program Goal:</b>	To provide outdoor recreation opportunities in an effective and efficient manner.
<b>Corporate Goal:</b>	20 Percent
<b>Measure:</b>	Percent Cost of Recreation Program Recovered
<b>Customer:</b>	The public
<b>Definition:</b>	Revenues generated by the Corps recreation programs divided by the costs of providing those programs. Revenues include commercial concession receipts, user fee receipts, and quasi public recreation receipts. Costs include WCCs 605xx and 615xx, and the recreation allocation of 606xx and 616xx, where applicable.
<b>Demonstrates:</b>	Corps effectiveness of implementation of the user fee program.
<b>Data Source:</b>	CEFMS, NRMS, REMIS

**Tier II Performance Measure #7**

**RECREATION PERFORMANCE MEASURE**

<b>Program Goal:</b>	To provide continued outdoor recreation opportunities to meet the needs of present and future generations.
<b>Corporate Goal:</b>	90 Percent of customers rating facilities and services as acceptable or better for the price.
<b>Customer:</b>	The public
<b>Measure:</b>	Customer satisfaction with quality of facilities and services.
<b>Demonstrates:</b>	Corps effectiveness in providing quality recreation facilities and services to meet customer needs.
<b>Data Source:</b>	Customer Satisfaction Survey

**Tier II Performance Measure #8**

**ENVIRONMENTAL - NATURAL RESOURCES PERFORMANCE MEASURE**

<b>Program Goal:</b>	Corps mitigation outputs meet the requirements of authorizing legislation or relevant Corps decision document.
<b>Corporate Goal:</b>	70 Percent of Corps administered mitigation lands (acres) achieving Corps mitigation requirements.
<b>Customer:</b>	The Public
<b>Measure:</b>	Percent of Corps administered mitigation lands (acres) meeting the requirements in the authorizing legislation or relevant Corps of Engineers decision document.
<b>Definition:</b>	<p>Number of designated Corps administered mitigation lands (acres) meeting mitigation requirements divided by the total number of designated Corps administered mitigation lands (acres).</p> <p>Mitigation lands: Mitigation lands are those lands on which mitigation measures are taken to compensate for adverse ecological impacts unavoidably caused by Corps projects or activities. For the performance measure, these lands are those authorized by Congress or approved by HQUSACE in a formally documented decision.</p> <p>Corps administered lands: Corps lands either managed by the Corps, or lands licensed, permitted or leased from the Corps.</p>
<b>Demonstrates:</b>	Status of Corps efforts to meet mitigation requirements.
<b>Data Source:</b>	Operational Management Plans, Natural Resources Management System - data fields to be determined.

**Tier II Performance Measure #9**

**ENVIRONMENTAL - NATURAL RESOURCES PERFORMANCE MEASURE**

<b>Program Goal:</b>	Assist in the recovery of Federally listed species.
<b>Corporate Goal:</b>	Accomplish Recovery Plan requirements for 30 Percent of Federally listed species identified in those Recovery Plans which designate the Corps as having recovery requirements.
<b>Customer:</b>	The Public.
<b>Measure:</b>	Percent of Federally listed species with final Fish and Wildlife Service (FWS)/ National Marine Fisheries Service (NMFS) Recovery Plans for which Corps is accomplishing ascribed FWS/ NMFS Recovery Plan requirements.
<b>Definition:</b>	Number of species with final FWS/NMFS Recovery Plans for which the Corps is accomplishing ascribed FWS/NMFS Recovery Plan requirements divided by the number of species for which the Corps has recovery requirements specified in final FWS/NMFS Recovery Plans.
<b>Demonstrates:</b>	Corps accomplishment of its responsibilities in FWS/ NMFS Federally listed species Recovery Plans.
<b>Data Source:</b>	FWS, NMFS, Initial field data call, NRMS-data fields to be determined.

**Tier II Performance Measure #10**

**ENVIRONMENTAL - COMPLIANCE PERFORMANCE MEASURE**

<b>Program Goal:</b>	Assure that all CW facilities and associated lands (including outgranted areas) comply with environmental requirements contained in relevant Federal, state and local laws and regulations.	
<b>Corporate Goal:</b>	a. Significant findings	100 Percent
	b. Major findings	75 Percent
<b>Measure:</b>	a. Percent significant findings corrected vs number identified. (Significant findings require immediate attention. They pose, or have a high likelihood of posing a direct and immediate threat to human health, safety, the environment, or the mission.)  b. Percent major findings corrected vs number identified. (Major findings require action but not necessarily immediate attention. They may pose a threat to human health, safety, or the environment.)	
<b>Definition:</b>	The number of corrected significant and major findings at Corps operated projects and facilities, not including outgrants, divided by the sum total of significant findings identified as a result of TEAM-ERGO compliance assessments, regulator inspections, daily operating activities, and any uncorrected significant findings from previous years.	
<b>Demonstrates:</b>	Annual compliance with environmental laws and regulations is being accomplished.	
<b>Unit of Output:</b>	Percent	
<b>Data Source:</b>	MSCS/districts/facilities ERGO assessment data.	



**ILLUSTRATION C-2.1**  
**XXXXXXXXXXXX MAJOR SUBORDINATE COMMAND (MSC)**  
**SUPPLEMENTAL JUSTIFICATION SHEET**  
**MAJOR MAINTENANCE**

(1) **DESCRIPTION OF WORK:** (Describe specific items of work to be included in the overall package.)

(2) **JUSTIFICATION:** (Provide justification for the total work to be accomplished, including economic evaluation. Quantify benefits when possible. In last paragraph of justification, provide arguments on why the work should be started in the program year, either design or construction; and the impact of not starting the work in the program year. For ongoing work, include the impacts of not continuing the work in the program year. These paragraphs must be in sufficient detail to permit a decision to be made on the investment.)

(3) **ESTIMATED COST AND SCHEDULE:** (Provide the basis of the estimated cost, i.e., based on cost of XYZ PROJECT IN FY 1990 indexed to current price levels, reconnaissance level estimate, e.g. *Design Memorandum D-28 approved 22 January 1993, etc*; and include the amount of contingencies included in the estimate. The cost estimate should be broken down to reflect individual DM's DDRs, procurements, contracts, installations, etc. Schedule dates should be shown only to the month and year, e.g., 11/9600, and all dollar amounts in even thousands, i.e., \$10,000 to be shown as 10. The estimate and schedule should include required fund requirements for engineering and design during construction and other related costs for completion of a total package. If contributed funds are required for Corps construction activities, include in cost estimate and add a line to the schedule with minus entries; so that the total line will reflect Total Federal fund requirements by year.)

This illustration is included to show the additional information required for major maintenance activities. This information will be provided in the format shown in the expanded funding argument field.

**ILLUSTRATION C-2.2 (Page 1 of 3)**  
~~XXXXXXXXXXXX~~ **MAJOR SUBORDINATE COMMAND**  
**SUPPLEMENTAL JUSTIFICATION SHEET**  
**DREDGED MATERIAL MANAGEMENT PLAN STUDIES**  
**(Dollars in Thousands)**

(1) **PROJECT: (Name of Project and State -- Bold Type)** CWIS No.: \_\_\_\_\_

(2) **DESCRIPTION OF STUDIES:** [Describe scope and depth of studies required to develop DMMP; state whether other Inter-related Federal projects are involved in study, and those projects, if any.]

(3) **JUSTIFICATION:** [Provide justification for the total study to be accomplished. In last paragraph of justification, provide arguments on why the study should be started in the program year, and the impact of not starting the study in the program year. For ongoing studies, include the impacts of not continuing the work in the program year. These paragraphs must be in sufficient detail to permit a decision to be made on the investment, and should refer to the attached supplemental information sheet.]

(4) <b>ESTIMATED COST AND SCHEDULE:</b>													
[Provide the basis of the estimated cost. Schedule dates should be shown only to the month and year, i.e., 11/960002, and all dollar amounts in even thousands, e.g. \$10,000 to be shown as 10. If contributed fund are required for Corps study activities, include in cost estimate and add a line to the schedule with minus entries; so that the total line will reflect Total Federal fund requirements by year.]													
Item	HL or Cont	Start Date	Compl Date	Total	Cost Thru	Fiscal Years							
						BY-2	BY-1	BY	BY+1	BY+2	BY+3	BY+4	Compl

(4) **PROBLEMS:** [Include any factor or circumstances, other than Federal funding, which might affect the item. If problems exist, state the expectations for and timing of a resolution.]

(5) **ADDITIONAL INFORMATION:** [Provide any additional information that applies to the work items. If local contributions are required, indicate status of agreement or evidence of intent to contribute.]

~~(6) **SUPPLEMENTAL INFORMATION SHEET:** Attached.~~

**ILLUSTRATION C-2.2 (Page 2 of 3)**  
**~~XXXXXXXXXXXX~~ MAJOR SUBORDINATE COMMAND**  
**SUPPLEMENTAL INFORMATION SHEET**  
**DREDGED MATERIAL MANAGEMENT PLAN STUDIES**

**PROJECT:** ~~(Name of Project and State -- Bold Type)~~ \_\_\_\_\_ CWIS No.: \_\_\_\_\_

Division Rank: \_\_\_\_\_ Date: \_\_\_\_\_

**Project Description(s):** ~~[Describe project fully, including all authorized dimensions. Give construction completion date(s). Attach project map(s).]~~

**Scope of Assessment:** ~~[Indicate whether single project or group of projects; relationship to permittee dredging, etc.]~~

**Authorization and Development History:** ~~[Specifically identify and list all project authorizations, Section 221 agreements, and Local Cooperation Agreements (LCAs), if any. Describe generally other agreements entered into or interests acquired, such as easements, fee acquisition, etc.]~~

**Profiles:**

\_\_\_\_\_ **Traffic:** ~~[Describe size, draft and frequency, by channel and/or project segment]~~

\_\_\_\_\_ **Costs:** ~~[Give long-term historical (15 years) O&M expenditures (total and dredging/disposal), by channel and/or project segment]~~

\_\_\_\_\_ **Yardage:** ~~[Long-term historical (15 years), by channel and/or project segment]~~

**Present dredging and disposal operations:** ~~[Describe locations, types of materials, contaminants, distribution, sources of pollution, present disposal sites, permittees, multiple user aspects, etc. Discuss extent to which authorized depths have been maintained.]~~

**Disposal Problems and Opportunities:**

\_\_\_\_\_ **Impediments to Continued Maintenance.** ~~[Describe physical constraints, environmental concerns, potential impact on costs, impact on disposal requirements. Include estimate of remaining physical life of existing disposal areas (i.e., number of years until new disposal site must be available and ready for use.)]~~

**Potential Beneficial Uses.** ~~[Describe potential beneficial uses.]~~

EC 44-2-17711-2-179  
31 Mar 9900

~~ILLUSTRATION C-2.2 (Page 3 of 3)~~  
~~XXXXXXXXXXXX MAJOR SUBORDINATE COMMAND~~  
~~SUPPLEMENTAL INFORMATION SHEET~~  
~~DREDGED MATERIAL MANAGEMENT PLAN STUDIES~~

**APPROPRIATION TITLE:** ~~Operation and Maintenance, General, FY (PY).~~

**PROJECT: (Name of Project and State -- Bold Type)** \_\_\_\_\_ CWIS No.: \_\_\_\_\_

Division Rank: \_\_\_\_\_ Date: \_\_\_\_\_

**Disposal Problems and Opportunities (Continued):**

**Consistency of Existing Environmental Compliance Documents With Ongoing O&M Activities:** [Discuss whether ongoing operations are consistent with currently filed EIS, etc.]

**Alternative Options to be Considered:** [Discuss principal options to be considered during study.]

**Extent of Studies Required:** [Describe in sufficient detail to support cost estimate and schedule.]

**Non-Federal Sponsor Involvement and Responsibilities:** [Discuss non-Federal sponsor responsibilities, including study cost sharing.]

**Views of the State(s):** [Discuss state views relative to State Coastal Zone Management Program and Section 401 of the Clean Water Act; and the consistency of those views with the "Federal Standard".]

**Views of Other Agencies:** [Discuss pertinent views of other Federal, state, and local agencies which have a substantial bearing on the necessary studies.]

**ILLUSTRATION C-2.3**  
**DISTRICT/MS** \_\_\_\_\_  
**WORKSHEET FOR FOUR-YEAR PROGRAM**  
**(DOLLARS IN THOUSANDS)**

	<b>PY</b>	<b>PY+1</b>	<b>PY+2</b>	<b>PY+3</b>	<b><u>PY+4</u></b>
(1) <b>Total Funded Amount.</b> Estimate the total funded dollar amount within the district. Do not adjust for inflation.					
(2) <b>Baseline.</b> Estimate the size of your baseline in each program year. Do not adjust for inflation.					
(3) <b>Cyclic.</b> Estimate the amount of cyclic work scheduled in each program year. Includes periodic inspections, periodic lock dewatering, periodic maintenance, etc. Do not adjust for inflation.					
(4) <b>Continuing Contracts.</b> Estimate the amount of funded continuing contracts for each program year. Do not adjust for inflation.					
(5) <b>New Requirements.</b> Estimate the amount of funded work packages that were not submitted in the previous year's submittal (excluding the cyclic work in Line 3). Do not adjust for inflation.					
(6) <b>Funded <u>UMAR Backlog</u>.</b> Calculate by taking the total from Line (1) and subtracting Lines (2) through (5).					
(7) <b>Overprogrammed <u>UMAR Backlog</u> (3 Percent of Total Funding).</b> This value represents 3 Percent of Line 1, or \$1 million, whichever is greater.					
(8) <b>Total Scheduled <u>UMAR Backlog</u>.</b> This value represents the sum of Lines 6 and 7.					

EC 44-2-17711-2-179  
31 Mar 9900

**ILLUSTRATION C-2.4**  
**DISTRICT/MS** \_\_\_\_\_  
**FOUR-FIVE-YEAR PROGRAM**  
**PY+\_\_**

	Dollars in Thousands
FUNDED TOTAL	
Baseline	
Cyclic	
Continuing Contracts	
New Requirements	
Subtotal	

District	Description	
a.		
b.		
etc.		
Subtotal Funded <u>UMAR</u> Backlog packages less than \$100,000		
<b>Total Funded <u>UMAR</u>Backlog Packages</b>		
List Overprogrammed <u>UMAR</u> Backlog packages less than \$100,000		
Total Overprogrammed <u>UMAR</u> Backlog Packages		
<b>Total Scheduled <u>UMAR</u>Backlog</b>		

**ILLUSTRATION C-2.5a**  
**MAJOR SUBORDINATE COMMAND**  
**JUSTIFICATION OF ESTIMATE**

**APPROPRIATION TITLE:** Operation and Maintenance, General, FY (PY)

**I. Navigation**

**Channels and Harbors.** The program estimate of \$ \_\_\_\_\_ provides for essential operation and maintenance work on ~~xx~~ channel and harbor projects named in the list which follows. The work to be accomplished under this activity consists of operating and maintaining the coastal navigation channels, harbors and anchorages by means of dredging, constructing bulkheads and spoil disposal areas, snagging, and repairing channel stabilization works, navigation structures, and harbor jetties, all as authorized in the laws pertaining to river and harbor projects.

<b><u>ESTIMATED OBLIGATIONS</u></b>			
<b><u>(\$)</u></b>			
<b><u>State/Project Name</u></b>	<b><u>FY (PY-1)</u></b> <b><u>TOTAL</u></b>	<b><u>FY (PY)</u></b> <b><u>TOTAL</u></b>	<b><u>Reason for Change and Major Maintenance Items</u></b>
	(Operations)	(Operations)	1. Reasons for change in Operations from PY-1 to PY (10%+/-)
	(Maintenance)	(Maintenance)	2. Major Maintenance Items Programmed in PY (Threshold \$500,000)
<b>Texas</b>			
Project A	0	730,000	
	(0)	(0)	1. None
	(0)	(730,000)	2. Dredge navigation Channel
Project B	1,490,000	2,145,000	
	(0)	(225,000)	1. Perform surveys and monitoring activities.
	(1,490,000)	(1,920,000)	2. Perform erosion protection on Disposal Area #3.
<b>Oklahoma</b> (Although not under <i>Navigation</i> category, following is a sample for multiple purpose.)			
Project C	1,387,000	2,404,000	
	(956,000)	(1,016,000)	1. None
	(431,000)	(1,388,000)	2. Replace voltage regulators and excitation equipment in PY.

NOTE: For easier preparation of this form, use "Table" format on MS Word 97 or similar.

**ILLUSTRATION C-2.5b**  
**XXXXXXXXXXXX MAJOR SUBORDINATE COMMAND**  
**JUSTIFICATION OF ESTIMATE**

**APPROPRIATION TITLE:** Operation and Maintenance, General, FY \_\_ (PY) \_\_

**2. Flood Control**

a. **Reservoirs: Scheduling Reservoir Operations.** The \$ \_\_\_\_ requested in FY \_\_ (PY) \_\_ supports preparation, review and updating of water control manuals, real-time data collection to monitor hydrologic conditions, and the issuance of gate regulation instructions as necessary at \_\_\_\_ non-Corps dam and reservoir projects at which the Corps is responsible for flood control or navigation.

<b><u>ESTIMATED OBLIGATIONS</u></b>			
<b><u>(\$)</u></b>			
<b><u>State/Project Name</u></b>	<b><u>FY (PY-1)</u></b> <b><u>TOTAL</u></b>	<b><u>FY (PY)</u></b> <b><u>TOTAL</u></b>	<b><u>Reason for Change</u></b>
<b>Arkansas</b>	30,000	32,000	
<b>Oklahoma</b>	22,000	32,000	
<b>Texas</b>	81,000	82,000	

b. **Channel Improvement: Inspection of Completed Works.** The \$ \_\_\_\_ requested in FY \_\_ (PY) \_\_ supports inspections at flood control projects constructed by the Corps and operated and maintained by non-Federal interests. The inspections are conducted to determine the extent of compliance with legal standards and to advise local interests, as necessary, of corrective measures required to ensure that project structures and facilities will continue to safely provide flood protection benefits. These projects consist of features such as channels, levees, flood walls, drainage structures and pumping plants.

<b>Arkansas</b>	70,000	62,000
<b>Oklahoma</b>	32,000	32,000
<b>Texas</b>	81,000	82,000

NOTE: For easier preparation of this form, use "Table" format on MS Word 97 or similar.



**ILLUSTRATION C-2.5c**  
**XXXXXXXXXXXX MAJOR SUBORDINATE COMMAND**  
**JUSTIFICATION OF ESTIMATE**

**APPROPRIATION TITLE:** Operation and Maintenance, General, FY (PY)

**4. Protection of Navigation**

a. **Project Condition Surveys.** The \$\_\_\_ requested in FY (PY) supports hydrographic surveys, inspections, and studies to determine the condition of navigation channels that do not have any other maintenance work included in the program request and disseminate the information to users of the projects. For the projects that do not require maintenance, surveys are performed at many of them in order to determine the degree of sedimentation so that users can be advised of channel conditions and future maintenance can be scheduled.

<b><u>ESTIMATED OBLIGATIONS</u></b>			
<b><u>(\$)</u></b>			
<b><u>State/Project Name</u></b>	<b><u>FY (PY-1)</u></b> <b><u>TOTAL</u></b>	<b><u>FY (PY)</u></b> <b><u>TOTAL</u></b>	<b><u>Reason for Change</u></b>
Michigan	0	0	
North Dakota	5,000	6,000	
New York	30,000	33,000	

b. **Surveillance of Northern Boundary Waters.** The \$\_\_\_ requested in FY (PY) supports meeting US obligations under provisions of boundary water treaties and other international agreements. Data collection includes current velocity measurements, presence and intensity of ice, water levels, land use patterns and estimating potential damages caused by extreme levels. This information can be used to enhance water level forecasts, develop crises response plans, and provide advance warning to area residents and waterway users of impending floods or ice jams.

Michigan	70,000	62,000
North Dakota	32,000	32,000
New York	81,000	82,000

NOTE: For easier preparation of this form, use "Table" format on MS Word 97 or similar.



OPERATION AND MAINTENANCE, GENERAL  
NATIONAL EMERGENCY PREPAREDNESS PROGRAM (NEPP)

C-3.1. **General.** Through the use of the Evaluation and Corrective Action Program and other similar assessment tools, every effort should be made to ensure that your current state of organizational readiness is maintained in a manner which assures that your capability to support the nation in a national emergency is sustained. *National Emergency Preparedness Program (NEPP)* activities to be programmed are Local Preparedness (Continuity of Operations) 903-510, National Preparedness (primarily the development of Catastrophic Disaster Response Plans (CDRP)) 903-520, Facilities (903-530), and the Emergency Water Program (903-540), Continuity of Government (903-550), and NEPP Training/Exercises (903-560). Overall program priorities are:

- Preparedness Plans and SOPs (including CDRP's, COOP, COG)
- Program Management
- Exercises and Training
- Emergency Facilities (EOC)

Field organizations should not anticipate any significant mid-year fiscal relief from HQUSACE ~~(CECW-OE)~~(CECS-OP) for personnel or other program costs. MSC's should critically review subordinate district requirements to ensure consistency with overall priorities. If necessary, MSC's should propose reprogramming within the Division to accomplish highest priority efforts.

C-3.2. **General Program.**

a. **National Emergency Preparedness Program (Code 903-500).** This feature series includes those civil administrative, supervisory and procurement activities ~~in each division or district at each USACE activity~~ that are concerned solely with developing and maintaining a high state of preparedness for national emergency operations of the Corps of Engineers Civil Works functions.

b. **Local Preparedness-Continuity of Operations (Code 903-510).** This feature series applies to USACE oriented Continuity of Operations (COOP) preparedness planning. Activities in this category include those associated with the identification of specific USACE reconstitution missions, the analysis of required resources, the establishment of organizational and operational procedures, the preparation and publication of contingency plans, and the participation in exercises related to ~~the USACE~~ emergency relocation and reconstitution ~~missions of a division or district~~ as a result of either a natural or manmade disaster. Planning items should include but are not limited to: command succession, identification of alternate relocation/alternate headquarters site(s) (NEPP does not support funding for the acquisition of space), development of appropriate crisis relocation team(s), identification and storage of duplicate emergency files, and other considerations necessary to ensure minimum downtime of the affected organization. This also includes, in conjunction with other appropriate offices, the development of a framework for the individual plans that address the continued operation of Corps civil works projects.

c. **National Preparedness Planning (Code 903-520).** This feature series consists of activities and services which provide the Corps with the capability to ensure that MSC's and districts can provide support for the nation during national emergency events other than reconstitution. Included are those activities associated with the identification of the USACE national emergency missions, the establishment of organizational and operational procedures, the preparation and publication of catastrophic disaster response plans. Also included is the necessary planning coordination with related Federal, state, and local entities. Efforts include, but are not

limited to, the following:

- (1) Technological and other manmade disasters.
  - (2) Anti and Counter ~~Tism~~ Terrorism.
  - (3) Military Support to Civil Authorities, including the development of catastrophic disaster response plans.
  - (4) Command, Control, Communications and Computers (C4).
  - (5) Individual Mobilization Augmentee (IMA) Program Management. IMA management associated solely with disaster response and the development and maintenance of disaster related TDAs.
  - (6) Port Readiness. Activities associated with maintenance of navigable waterways.
  - (7) Resource Management and Administration. Requirements associated with programming, personnel management, and reports.
- d. **FacilitiesEmergency Operations Center Support (Code 903-530)**. This feature consists of the exclusive use of space which supports Emergency Operations Centers (EOCs) . Included are those activities associated with the operation and maintenance in support of the facilities (rent, supplies, equipment, etc.). This class does not include any labor charges. The EOC will be funded on a joint basis between NEPP and other readiness programs.
- e. **Emergency Water Program (Code 903-540)**. ~~Execute requirements of~~ This applies to requirements of Executive Order (E.O.) 12656 (HQUSACE (CECW-OE) only). (For Headquarters, U.S. Army Corps of Engineers (HQUSACE only).
- f. **Continuity of Government (Code 903-550)**. Defined as plans to support Federal Emergency Management Agency (FEMA) and other Federal, state and local agencies in their efforts to reestablish civil authority lost as a result of natural or manmade technological-disaster or an attack on the United States ~~(HQUSACE (CECW-OE) only).~~ (HQUSACE and only as directed).
- g. **Catastrophic Disaster Training and Exercises (Code 903-560)**. The development of and participation in catastrophic disaster exercises and training in the inter- and intra-agency arena. The development and participation in evaluation and corrective action programs related to catastrophic disasters will be funded under this class.

C-3.3. **Cost Estimates.** ~~Based on PY-1 cost projections, inflation factors, and assumptions used in this EC, division headquarters National Emergency Preparedness activities previously charged to the General Expense account (GE) will be programed under Operation and Maintenance, General (NEPP).~~ Estimates should include overhead costs for both PY-1, PY, and PY+n. PY-1 figures entered in Illustrations C-3.1 and C-3.2 should reflect any recommended increases from the PY-1 program request.

C-3.4. **Recommended Funding Level.** PY-1 and PY funding levels for all series other than Code 903-520 are expected to be no higher than PY-2 levels, (Code 903-520 funding will be based upon specific scenario based CDRP assignments). MSC's will establish priorities for each major level of effort and identify those areas which cause recommended division/district programs to exceed funding levels defined. Requirements above PY-2 allocations should be specifically addressed. *Salary costs for MSC Emergency Management*

31 Mar 9900

*Chiefs are to be funded under the General Expenses appropriation, not Operation and Maintenance, General, or Flood Control and Coastal Emergencies appropriation accounts.*

C-3.5. **Submission Requirements.** HQUSACE will ~~furnish~~ provide ~~formatted disks~~ electronic versions for Illustrations to MSC's. MSC's will consolidate district's submissions and forward ~~completed disks and~~ hard copies to the ~~Readiness Branch, CECE-OE-P,~~ Office of Security, Plans and Operations (SPO), CECS-OP, not later than 15 June. Although detailed breakdowns of MSC and district programs for PY + n years are not required, districts will provide estimates to division headquarters to justify total programs for PY + n. Questions regarding NEPP program management submissions can be addressed to Chief, ~~CECWS-OEP,~~ telephone: (202) 761-02453.

EC 44-2-17711-2-179  
31Mar 9900

ILLUSTRATION C-3.1  
**NATIONAL EMERGENCY PREPAREDNESS PROGRAM  
FOUR-YEAR PROGRAM**  
(Dollars in thousands)

APPROPRIATION TITLE: Operation and Maintenance, General. FY \_\_\_\_\_  
(PY)

DIVISION OFFICE OR DISTRICT: \_\_\_\_\_.  
(SYMBOL)

Date \_\_\_\_\_  
(Date Prepared)

Class	Title	PY-1	PY	PY+1	PY+2	PY+3	PY+4
510	<del>Local Preparedness</del> <u>Continuity of Operations</u>						
520	National Preparedness <del>facilities</del> <u>Planning</u>						
530	<del>Facilities</del> <u>Emergency Operations</u> <u>Center Support</u>						
560	<del>NEPP</del> <del>Training/Exercises</del> <u>Catastrophic</u> <u>Disaster Training/Exercises</u>						
	Totals						

[FOR ILLUSTRATION PURPOSES ONLY -- TYPE AS REQUIRED]

ILLUSTRATION C-3.2  
\_\_\_\_\_  
DIVISION  
**NATIONAL EMERGENCY PREPAREDNESS PROGRAM**  
**RECOMMENDED PROGRAM SUPPORTINF DATA**  
(Dollars in thousands)

APPROPRIATION TITLE: Operation and Maintenance, General. FY \_\_\_\_\_  
(PY)

DIVISION OFFICE OR DISTRICT: \_\_\_\_\_.  
(Symbol)

Date \_\_\_\_\_  
(Date Prepared)

ACTIVITY	MAJOR AREA OF EFFORT	PRIORITY	PY-1	PY	PY+2
510	<del>Local Preparedness</del> <u>Continuity of Operations</u>				
520	National Preparedness <del>facilities</del> <u>Planning</u>				
530	<del>Facilities</del> <u>Emergency Operations</u> Center Support				
560	<del>NEPP</del> <del>Training/Exercises</del> <u>Catastrophic</u> <del>Disaster Training/Exercises</del>				
	Totals				

[FOR ILLUSTRATION PURPOSES ONLY -- TYPE AS REQUIRED]

**ALL PREVIOUSLY PUBLISHED ILLUSTRATIONS FOR THIS CHAPTER (C-3) HAVE BEEN DELETED**





**SUBAPPENDIX C-4  
OPERATION AND MAINTENANCE, GENERAL  
RECREATION FACILITIES AT COMPLETED PROJECTS**

**C-4.1. General.**

- a. The construction of new recreation facilities at completed projects is limited to a 50 percent Federal - 50 percent non-Federal cost basis consistent with the Administration's policy of encouraging states and their political subdivisions to share in the development of public recreation facilities. The non-Federal sponsor is required to enter into a cost-sharing agreement with the Corps prior to construction and agree to assume operation and maintenance (O&M) responsibilities for the completed recreation area.
- b. The only exception to the Administration's cost-sharing policy is for upgrading of existing facilities required to meet urgent sanitation needs in accordance with the provisions of applicable local, state and Federal laws. In this instance, the Corps may develop these sanitation facilities at 100 percent Federal cost. This policy is consistent with the requirements of Executive Order 11514 and 12088, and Public Law 92-500.
- c. Construction, renovation and upgrade of recreation facilities may also be accomplished in accordance with paragraph C-2.16, Special Recreation Use Fees (SRUF).

**C-4.2. Funding Level .** The following items may be included in the program request in the proper levels:

- a. Ongoing cost-sharing developments, which have been previously approved and require reimbursement by local sponsor upon completion, should be given priority in non-deferrable funding level for early completion. This will help to expedite repayment to the Federal Government of non-Federal share of funds already spent for the project (WCC 61513).
- b. New start work needed for upgrading sanitation facilities (code 711) only if the upgrading will take place in areas likely to remain open under stringent program and manpower constraints and the sanitary deficiencies would require closing the areas, reducing periods of operation, or reducing levels of use if not corrected (WCC s 61511, 61512, and 61560).
- c. Relocation, refurbishment or modernization of sanitary facilities located in consolidated or repaired areas in order to sufficiently handle the changed use patterns (WCC s 61511, 61512, and 61513).
- d. Reimbursement of local cost-sharing sponsors who have an ASA(CW) approved agreement prior to the submittal dates specified in this circular (WCC 61513).
- e. New starts for cost shared recreation facilities (code 713) may be proposed only if local sponsors indicate in writing their intent to provide 50 percent of the total cost of proposed recreational facilities and any separable recreation lands involved) and operate and maintain the area after completion.
- f. Requests for funds for engineering and design activities will be limited to the requirement for activities described in paragraphs C-4.2.a through d.

**C-4.3. Supporting Data**

EC ~~41-2-177~~11-2-179

31 Mar ~~99~~00

a. Funding arguments for new recreational facilities must provide the information displayed in Illustration C-4.1. Use of the Illustration format is not mandatory.

b. Requests for funds for any new start cost shared work must be accompanied by a letter of intent from the local sponsor or by complete reference to any existing HQUSACE (CECW-O)/ASA(CW) approved cost-sharing agreements.

**ILLUSTRATION C-4.1**  
**NEW RECREATION FACILITIES AT COMPLETED PROJECTS**  
**SUPPLEMENTAL INFORMATION**  
(Dollars in Thousands)

COST SHARING (CODE 713 ITEMS) TOTAL:

FACILITIES TO BE PROVIDED IN THE PROGRAM YEAR

1.     Area Name:  
        Description of Work:  
        Total Cost:  
        Allocations To Date:  
        Program Year (PY) Estimate:  
        Balance to Complete

2.     Area Name:  
        Description of Work:  
        Total Cost:  
        Allocations To Date:  
        Program Year (PY) Estimate:  
        Balance to Complete

Etc.

STATUS OF LOCAL COOPERATION FOR COST SHARING PROPOSED IN PY

1.     Area Name  
        Status:

2.     Area Name  
        Status:

Etc.

[FOR ILLUSTRATION PURPOSES ONLY -- TYPE AS NEEDED]